

SUPPORTING DATA FOR THE 1993 UPPER COOK INLET ADULT SALMON ESCAPEMENT STUDIES

By

Randall Z. Davis

and

Bruce E. King

Regional Information Report No. 2A93-41

Alaska Department of Fish and Game
Commercial Fisheries Management and Development Division
333 Raspberry Road
Anchorage, Alaska 99518

April 1994

¹Contribution 2A93-41 from the Soldotna area office. The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished divisional reports. These reports frequently serve diverse ad hoc information purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Commercial Fisheries Management and Development Division.

TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES	ii
LIST OF FIGURES	vi
INTRODUCTION	1
LITERATURE CITED	2
TABLES	3
FIGURE	47

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1. Estimated salmon escapement adjacent to the north bank of the Kenai River, 1 July through 13 August 1993. Species composition of daily sonar counts based on fish wheel catches	3
2. Estimated salmon escapement adjacent to the south bank of the Kenai River, 1 July through 13 August 1993. Species composition of daily sonar counts based on fish wheel catches	4
3. Kenai River north bank sonar counts by sector, 1 July through 13 August 1993	5
4. Kenai River north bank sonar counts by sector, 1 July through 13 August 1993. Counts expressed as percent of daily total	6
5. Kenai River south bank sonar counts by sector, 1 July through 13 August 1993	7
6. Kenai River south bank sonar counts by sector, 1 July through 13 August 1993. Counts expressed as percent of daily total	8
7. Kenai River north bank sonar counts by hour, 1 July through 13 August 1993	9
8. Kenai River north bank sonar counts by hour, 1 July through 13 August 1993. Counts expressed as percent of daily total	10
9. Kenai River south bank sonar counts by hour, 1 July through 13 August 1993	11
10. Kenai River south bank sonar counts by hour, 1 July through 13 August 1993. Counts expressed as percent of daily total	12
11. Estimated salmon escapement adjacent to the north bank of the Kasilof River, 12 June through 5 August 1993	13
12. Estimated salmon escapement adjacent to the south bank of the Kasilof River, 12 June through 5 August 1993	14
13. Kasilof River north bank sonar counts by sector, 12 June through 5 August 1993	15

LIST OF TABLES (Continued)

<u>Table</u>	<u>Page</u>
14. Kasilof River north bank sonar counts by sector, 12 June through 5 August 1993. Counts expressed as percent of daily total	16
15. Kasilof River south bank sonar counts by sector, 12 June through 5 August 1993	17
16. Kasilof River south bank sonar counts by sector, 12 June through 5 August 1993. Counts expressed as percent of daily total	18
17. Kasilof River north bank sonar counts by hour, 12 June through 5 August 1993	19
18. Kasilof River north bank sonar counts by hour, 12 June through 5 August 1993. Counts expressed as percent of daily total	21
19. Kasilof River south bank sonar counts by hour, 12 June through 5 August 1993	23
20. Kasilof River south bank sonar counts by hour, 12 June through 5 August 1993. Counts expressed as percent of daily total	25
21. Estimated salmon escapement adjacent to the north bank of the Crescent River, 25 June through 2 August 1993. Species composition of daily sonar counts based on fish wheel catches	27
22. Estimated salmon escapement adjacent to the south bank of the Crescent River, 25 June through 2 August 1993. Species composition of daily sonar counts based on fish wheel catches	28
23. Crescent River north bank sonar counts by sector, 25 June through 2 August 1993	29
24. Crescent River north bank sonar counts by sector, 25 June through 2 August 1993. Counts expressed as percent of daily total	30
25. Crescent River south bank sonar counts by sector, 25 June through 2 August 1993	31
26. Crescent River south bank sonar counts by sector, 25 June through 2 August 1993. Counts expressed as percent of daily total	32

LIST OF TABLES (Continued)

<u>Table</u>	<u>Page</u>
27. Crescent River north bank sonar counts by hour, 25 June through 2 August 1993	33
28. Crescent River north bank sonar counts by hour, 25 June through 2 August 1993. Counts expressed as percent of daily total	34
29. Crescent River south bank sonar counts by hour, 25 June through 2 August 1993	35
30. Crescent River south bank sonar counts by hour, 25 June through 2 August 1993. Counts expressed as percent of daily total	36
31. Estimated salmon escapement adjacent to the north bank of the Yentna River, 7 July through 6 August 1993. Species composition of daily sonar counts based on fish wheel catches	37
32. Estimated salmon escapement adjacent to the south bank of the Yentna River, 7 July through 7 August 1993. Species composition of daily sonar counts based on fish wheel catches	38
33. Yentna River north bank sonar counts by sector, 7 July through 6 August 1993	39
34. Yentna River north bank sonar counts by sector, 7 July through 6 August 1993. Counts expressed as percent of daily total	40
35. Yentna River south bank sonar counts by sector, 7 July through 7 August 1993	41
36. Yentna River south bank sonar counts by sector, 7 July through 7 August 1993. Counts expressed as percent of daily total	42
37. Yentna River north bank sonar counts by hour, 7 July through 6 August 1993	43
38. Yentna River north bank sonar counts by hour, 7 July through 6 August 1993. Counts expressed as percent of daily total	44
39. Yentna River south bank sonar counts by hour, 7 July through 7 August 1993	45

LIST OF TABLES (Continued)

<u>Table</u>	<u>Page</u>
40. Yentna River south bank sonar counts by hour, 7 July through 7 August 1993. Counts expressed as percent of daily total	46

LIST OF FIGURES

<u>Figure</u>	Page
1. Upper Cook Inlet, Alaska, and sites where sockeye salmon escapement was monitored with side-scanning sonar	47

INTRODUCTION

The tables which make up this report contain information collected in Upper Cook Inlet sockeye salmon (*Oncorhynchus nerka*) enumeration studies in 1993. These studies were conducted on the Kenai, Kasilof, Crescent and Yentna Rivers. These data were collected using *Bendix Corp.* side-scanning sonar counters and fish wheels.

The purpose of this report is to archive data which were summarized in Davis, King and Tarbox (1994).

LITERATURE CITED

Davis, R.Z. B.E. King, and K.E. Tarbox. *In press*. Upper Cook Inlet salmon escapement studies, 1994. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Technical Data Report, Juneau.

Table 1. Estimated salmon escapement adjacent to the north bank of the Kenai River, 1 July through 13 August 1993. Species composition of daily sonar counts based on fish wheel catches.

Date	SOCKEYE		PINK		COHO		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
01-Jul	1,806	1,806	4	4	0	0	7	7
02-Jul	3,092	4,898	6	10	0	0	13	20
03-Jul	1,710	6,608	4	14	0	0	7	27
04-Jul	1,609	8,217	3	17	0	0	7	34
05-Jul	7,942	16,159	16	33	0	0	33	67
06-Jul	7,921	24,080	16	49	0	0	33	100
07-Jul	589	24,669	2	51	0	0	2	102
08-Jul	1,209	25,878	2	53	0	0	5	107
09-Jul	5,734	31,612	11	64	0	0	24	131
10-Jul	2,407	34,019	13	77	0	0	39	170
11-Jul	377	34,396	2	79	0	0	6	176
12-Jul	2,236	36,632	12	91	0	0	36	212
13-Jul	2,906	39,538	6	97	0	0	6	218
14-Jul	43,141	82,679	85	182	0	0	86	304
15-Jul	37,862	120,541	75	257	0	0	75	379
16-Jul	42,026	162,567	172	429	0	0	0	379
17-Jul	31,743	194,310	0	429	0	0	0	379
18-Jul	12,384	206,694	0	429	0	0	0	379
19-Jul	7,873	214,567	43	472	0	0	0	379
20-Jul	10,624	225,191	59	531	0	0	0	379
21-Jul	11,510	236,701	78	609	0	0	157	536
22-Jul	8,092	244,793	55	664	0	0	110	646
23-Jul	6,551	251,344	45	709	0	0	89	735
24-Jul	6,198	257,542	19	728	0	0	0	735
25-Jul	4,802	262,344	15	743	0	0	0	735
26-Jul	14,635	276,979	46	789	0	0	0	735
27-Jul	20,615	297,594	65	854	0	0	0	735
28-Jul	11,331	308,925	0	854	0	0	0	735
29-Jul	9,785	318,710	0	854	0	0	0	735
30-Jul	8,115	326,825	65	919	0	0	0	735
31-Jul	6,490	333,315	52	971	0	0	0	735
01-Aug	5,043	338,358	24	995	0	0	23	758
02-Aug	6,372	344,730	29	1,024	0	0	30	788
03-Aug	4,997	349,727	23	1,047	0	0	23	811
04-Aug	2,498	352,225	29	1,076	20	20	0	811
05-Aug	3,618	355,843	42	1,118	29	49	0	811
06-Aug	9,605	365,448	114	1,232	76	125	0	811
07-Aug	6,694	372,142	36	1,268	182	307	0	811
08-Aug	3,665	375,807	20	1,288	100	407	0	811
09-Aug	6,159	381,966	28	1,316	28	435	0	811
10-Aug	3,847	385,813	31	1,347	15	450	16	827
11-Aug	2,694	388,507	22	1,369	11	461	11	838
12-Aug	3,602	392,109	0	1,369	0	461	0	838
13-Aug	3,787	395,896	0	1,369	0	461	0	838

Table 2. Estimated salmon escapement adjacent to the south bank of the Kenai River, 1 July through 13 August 1993. Species composition of daily sonar counts based on fish wheel catches.

Date	SOCKEYE		PINK		COHO		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
01-Jul	1,557	1,557	4	4	0	0	6	6
02-Jul	1,622	3,179	3	7	0	0	7	13
03-Jul	899	4,078	2	9	0	0	4	17
04-Jul	3,493	7,571	8	17	0	0	14	31
05-Jul	6,634	14,205	14	31	0	0	27	58
06-Jul	8,507	22,712	18	49	0	0	35	93
07-Jul	2,573	25,285	5	54	0	0	11	104
08-Jul	3,071	28,356	6	60	0	0	13	117
09-Jul	5,621	33,977	12	72	0	0	23	140
10-Jul	1,498	35,475	8	80	0	0	24	164
11-Jul	1,010	36,485	6	86	0	0	16	180
12-Jul	1,560	38,045	9	95	0	0	25	205
13-Jul	4,965	43,010	10	105	0	0	10	215
14-Jul	45,241	88,251	90	195	0	0	90	305
15-Jul	36,401	124,652	72	267	0	0	72	377
16-Jul	38,546	163,198	157	424	0	0	0	377
17-Jul	37,424	200,622	0	424	0	0	0	377
18-Jul	12,981	213,603	0	424	0	0	0	377
19-Jul	5,851	219,454	32	456	0	0	0	377
20-Jul	8,657	228,111	48	504	0	0	0	377
21-Jul	8,649	236,760	58	562	0	0	118	495
22-Jul	5,907	242,667	41	603	0	0	80	575
23-Jul	3,792	246,459	25	628	0	0	52	627
24-Jul	3,404	249,863	11	639	0	0	0	627
25-Jul	4,154	254,017	13	652	0	0	0	627
26-Jul	13,781	267,798	43	695	0	0	0	627
27-Jul	20,780	288,578	65	760	0	0	0	627
28-Jul	11,047	299,625	0	760	0	0	0	627
29-Jul	10,419	310,044	0	760	0	0	0	627
30-Jul	9,911	319,955	79	839	0	0	0	627
31-Jul	8,793	328,748	70	909	0	0	0	627
01-Aug	5,983	334,731	27	936	0	0	28	655
02-Aug	8,169	342,900	38	974	0	0	38	693
03-Aug	5,842	348,742	27	1,001	0	0	27	720
04-Aug	4,011	352,753	47	1,048	32	32	0	720
05-Aug	6,216	358,969	74	1,122	49	81	0	720
06-Aug	14,529	373,498	172	1,294	115	196	0	720
07-Aug	8,259	381,757	45	1,339	224	420	0	720
08-Aug	5,441	387,198	29	1,368	148	568	0	720
09-Aug	10,829	398,027	49	1,417	49	617	0	720
10-Aug	5,276	403,303	42	1,459	22	639	21	741
11-Aug	4,816	408,119	39	1,498	20	659	19	760
12-Aug	4,189	412,308	0	1,498	0	659	0	760
13-Aug	5,413	417,721	0	1,498	0	659	0	760

Table 3. Kenal River north bank sonar counts by sector, 1 July through 13 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
01-Jul	8	5	7	26	30	61	218	436	262	125	258	381	1,817
02-Jul	9	14	60	41	47	95	182	482	501	308	598	774	3,111
03-Jul	1	1	3	10	26	43	57	108	145	147	452	728	1,721
04-Jul	1	6	3	35	5	15	20	126	476	321	213	398	1,619
05-Jul	1	0	0	0	14	9	67	2,099	1,283	1,930	1,927	661	7,991
06-Jul	2	0	2	0	8	17	70	1,208	1,720	2,429	1,984	530	7,970
07-Jul	9	15	14	1	1	3	31	41	50	76	151	201	593
08-Jul	1	0	4	5	0	16	29	49	81	245	355	431	1,216
09-Jul	37	2	1	53	24	80	72	354	327	406	1,393	3,020	5,769
10-Jul	45	141	121	163	54	55	91	135	251	574	303	526	2,459
11-Jul	0	1	0	0	0	1	0	0	7	114	136	126	385
12-Jul	0	0	0	2	2	1	5	27	77	521	852	797	2,284
13-Jul	3	2	10	220	642	421	285	148	135	260	354	438	2,918
14-Jul	30	102	7,061	8,962	5,392	5,198	4,578	4,548	2,396	1,805	1,896	1,344	43,312
15-Jul	26	792	9,984	7,773	1,041	2,061	5,549	4,290	2,614	1,628	1,099	1,155	38,012
16-Jul	21	287	9,273	12,119	4,114	2,957	5,052	3,120	2,167	1,411	977	700	42,198
17-Jul	1,884	2,117	9,271	7,934	3,032	2,159	2,605	1,197	654	394	262	234	31,743
18-Jul	108	286	2,230	3,913	1,850	706	1,263	548	434	315	273	458	12,384
19-Jul	114	135	470	571	903	499	710	913	1,125	1,105	764	607	7,916
20-Jul	131	207	1,004	3,408	1,974	792	805	990	455	241	241	435	10,683
21-Jul	15	585	1,420	3,499	1,754	1,044	994	1,000	527	237	231	439	11,745
22-Jul	72	543	793	2,083	1,072	917	818	936	490	244	288	1	8,257
23-Jul	63	579	769	1,790	1,165	725	438	409	313	212	93	129	6,685
24-Jul	19	426	465	1,213	991	825	536	651	472	288	131	200	6,217
25-Jul	23	436	545	1,241	774	596	336	283	282	110	72	119	4,817
26-Jul	200	1,911	2,386	3,929	2,038	1,578	853	722	502	203	149	210	14,681
27-Jul	61	4,784	3,925	3,736	1,688	1,705	1,777	1,385	873	314	176	256	20,680
28-Jul	33	2,986	2,753	2,467	742	648	578	415	262	123	109	215	11,331
29-Jul	16	1,024	1,511	2,257	1,252	1,090	912	875	414	132	106	196	9,785
30-Jul	27	968	1,021	1,445	843	1,003	602	809	638	306	202	316	8,180
31-Jul	113	1,615	1,760	1,408	468	374	219	271	112	72	42	88	6,542
01-Aug	40	251	570	1,254	636	531	337	547	392	182	99	251	5,090
02-Aug	13	149	592	1,401	952	815	484	1,007	570	209	90	149	6,431
03-Aug	52	448	913	1,558	689	512	212	173	276	104	65	41	5,043
04-Aug	32	166	200	426	325	289	236	258	317	141	84	73	2,547
05-Aug	8	83	185	555	461	434	431	496	451	291	197	97	3,689
06-Aug	11	1,221	1,493	3,383	1,787	927	371	261	114	102	62	63	9,795
07-Aug	85	1,049	235	546	625	682	739	933	1,003	446	314	255	6,912
08-Aug	7	346	181	793	647	580	205	240	291	219	168	108	3,785
09-Aug	72	889	425	860	870	789	617	573	450	244	164	262	6,215
10-Aug	118	925	373	550	453	342	322	256	202	96	117	155	3,909
11-Aug	9	181	149	466	349	282	302	333	249	140	136	142	2,738
12-Aug	15	430	276	540	406	345	404	417	289	149	129	202	3,602
13-Aug	57	610	521	951	585	265	253	134	117	48	78	168	3,787
Total	3,592	26,718	62,979	83,587	40,731	32,487	34,665	34,203	24,766	18,967	17,790	18,079	398,564

Table 4. Kenal River north bank sonar counts by sector, 1 July through 13 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
01-Jul	0.4	0.3	0.4	1.4	1.7	3.4	12.0	24.0	14.4	6.9	14.2	21.0	100.1
02-Jul	0.3	0.5	1.9	1.3	1.5	3.1	5.9	15.5	16.1	9.9	19.2	24.9	100.1
03-Jul	0.1	0.1	0.2	0.6	1.5	2.5	3.3	6.3	8.4	8.5	26.3	42.3	100.1
04-Jul	0.1	0.4	0.2	2.2	0.3	0.9	1.2	7.8	29.4	19.8	13.2	24.6	100.1
05-Jul	0.0	0.0	0.0	0.0	0.2	0.1	0.8	26.3	16.1	24.2	24.1	8.3	100.1
06-Jul	0.0	0.0	0.0	0.0	0.1	0.2	0.9	15.2	21.6	30.5	24.9	6.6	100.0
07-Jul	1.5	2.5	2.4	0.2	0.2	0.5	5.2	6.9	8.4	12.8	25.5	33.9	100.0
08-Jul	0.1	0.0	0.3	0.4	0.0	1.3	2.4	4.0	6.7	20.1	29.2	35.4	99.9
09-Jul	0.6	0.0	0.0	0.9	0.4	1.4	1.2	6.1	5.7	7.0	24.1	52.3	99.7
10-Jul	1.8	5.7	4.9	6.6	2.2	2.2	3.7	5.5	10.2	23.3	12.3	21.4	99.8
11-Jul	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	1.8	29.6	35.3	32.7	100.0
12-Jul	0.0	0.0	0.0	0.1	0.1	0.0	0.2	1.2	3.4	22.8	37.3	34.9	100.0
13-Jul	0.1	0.1	0.3	7.5	22.0	14.4	9.8	5.1	4.6	8.9	12.1	15.0	99.9
14-Jul	0.1	0.2	16.3	20.7	12.4	12.0	10.6	10.5	5.5	4.2	4.4	3.1	100.0
15-Jul	0.1	2.1	26.3	20.4	2.7	5.4	14.6	11.3	6.9	4.3	2.9	3.0	100.0
16-Jul	0.0	0.7	22.0	28.7	9.7	7.0	12.0	7.4	5.1	3.3	2.3	1.7	99.9
17-Jul	5.9	6.7	29.2	25.0	9.6	6.8	8.2	3.8	2.1	1.2	0.8	0.7	100.0
18-Jul	0.9	2.3	18.0	31.6	14.9	5.7	10.2	4.4	3.5	2.5	2.2	3.7	99.9
19-Jul	1.4	1.7	5.9	7.2	11.4	6.3	9.0	11.5	14.2	14.0	9.7	7.7	100.0
20-Jul	1.2	1.9	9.4	31.9	18.5	7.4	7.5	9.3	4.3	2.3	2.3	4.1	100.1
21-Jul	0.1	5.0	12.1	29.8	14.9	8.9	8.5	8.5	4.5	2.0	2.0	3.7	100.0
22-Jul	0.9	6.6	9.6	25.2	13.0	11.1	9.9	11.3	5.9	3.0	3.5	0.0	100.0
23-Jul	0.9	8.7	11.5	26.8	17.4	10.8	6.6	6.1	4.7	3.2	1.4	1.9	100.0
24-Jul	0.3	6.9	7.5	19.5	15.9	13.3	8.6	10.5	7.6	4.6	2.1	3.2	100.0
25-Jul	0.5	9.1	11.3	25.8	16.1	12.4	7.0	5.9	5.9	2.3	1.5	2.5	100.3
26-Jul	1.4	13.0	16.3	26.8	13.9	10.7	5.8	4.9	3.4	1.4	1.0	1.4	100.0
27-Jul	0.3	23.1	19.0	18.1	8.2	8.2	8.6	6.7	4.2	1.5	0.9	1.2	100.0
28-Jul	0.3	26.4	24.3	21.8	6.5	5.7	5.1	3.7	2.3	1.1	1.0	1.9	100.1
29-Jul	0.2	10.5	15.4	23.1	12.8	11.1	9.3	8.9	4.2	1.3	1.1	2.0	99.9
30-Jul	0.3	11.8	12.5	17.7	10.3	12.3	7.4	9.9	7.8	3.7	2.5	3.9	100.1
31-Jul	1.7	24.7	26.9	21.5	7.2	5.7	3.3	4.1	1.7	1.1	0.6	1.3	99.8
01-Aug	0.8	4.9	11.2	24.6	12.5	10.4	6.6	10.7	7.7	3.6	1.9	4.9	99.8
02-Aug	0.2	2.3	9.2	21.8	14.8	12.7	7.5	15.7	8.9	3.2	1.4	2.3	100.0
03-Aug	1.0	8.9	18.1	30.9	13.7	10.2	4.2	3.4	5.5	2.1	1.3	0.8	100.1
04-Aug	1.3	6.5	7.9	16.7	12.8	11.3	9.3	10.1	12.4	5.5	3.3	2.9	100.0
05-Aug	0.2	2.2	5.0	15.0	12.5	11.8	11.7	13.4	12.2	7.9	5.3	2.6	99.8
06-Aug	0.1	12.5	15.2	34.5	18.2	9.5	3.8	2.7	1.2	1.0	0.6	0.6	99.9
07-Aug	1.2	15.2	3.4	7.9	9.0	9.9	10.7	13.5	14.5	6.5	4.5	3.7	100.0
08-Aug	0.2	9.1	4.8	21.0	17.1	15.3	5.4	6.3	7.7	5.8	4.4	2.9	100.0
09-Aug	1.2	14.3	6.8	13.8	14.0	12.7	9.9	9.2	7.2	3.9	2.6	4.2	99.8
10-Aug	3.0	23.7	9.5	14.1	11.6	8.7	8.2	6.5	5.2	2.5	3.0	4.0	100.0
11-Aug	0.3	6.6	5.4	17.0	12.7	10.3	11.0	12.2	9.1	5.1	5.0	5.2	99.9
12-Aug	0.4	11.9	7.7	15.0	11.3	9.6	11.2	11.6	8.0	4.1	3.6	5.6	100.0
13-Aug	1.5	16.1	13.8	25.1	15.4	7.0	6.7	3.5	3.1	1.3	2.1	4.4	100.0

Table 5. Kenai River south bank sonar counts by sector, 1 July through 13 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
01-Jul	99	34	22	35	47	335	239	447	139	73	37	60	1,567
02-Jul	128	31	34	125	154	554	145	287	91	36	17	30	1,632
03-Jul	103	22	20	27	42	327	29	172	74	23	14	52	905
04-Jul	135	11	20	351	321	364	521	1,241	162	207	114	68	3,515
05-Jul	150	21	14	419	631	914	1,190	2,646	242	332	85	31	6,675
06-Jul	486	287	254	655	560	523	1,148	2,791	352	469	771	264	8,560
07-Jul	271	144	185	408	44	16	217	332	148	316	374	134	2,589
08-Jul	55	91	126	575	69	37	282	526	236	368	621	104	3,090
09-Jul	139	77	65	424	269	244	523	1,068	1,144	510	851	342	5,656
10-Jul	147	54	344	301	71	97	46	91	261	81	1	36	1,530
11-Jul	187	49	142	182	30	37	22	81	220	73	6	3	1,032
12-Jul	181	119	122	160	139	220	52	202	322	58	4	15	1,594
13-Jul	450	877	1,509	739	410	574	56	95	166	94	4	11	4,985
14-Jul	2,731	15,146	13,011	5,608	2,773	2,141	272	1,229	1,966	505	33	6	45,421
15-Jul	743	17,152	8,265	3,433	2,508	2,351	151	698	1,010	226	7	1	36,545
16-Jul	1,296	20,839	7,531	2,187	1,473	1,116	324	1,586	1,996	307	39	9	38,703
17-Jul	2,026	24,289	6,914	1,113	534	329	231	570	755	112	17	534	37,424
18-Jul	1,239	8,342	1,573	468	417	356	48	213	203	37	16	69	12,981
19-Jul	296	3,829	812	225	198	116	32	185	147	23	4	16	5,883
20-Jul	487	6,049	1,719	161	65	30	18	74	82	11	3	6	8,705
21-Jul	318	6,205	1,854	167	42	48	20	73	80	15	2	1	8,825
22-Jul	268	4,120	1,106	141	83	71	33	105	79	10	7	5	6,028
23-Jul	210	2,307	497	141	150	101	48	230	163	13	4	5	3,869
24-Jul	121	867	1,073	281	213	214	49	160	337	80	18	2	3,415
25-Jul	71	1,680	1,599	184	132	131	38	97	163	44	11	17	4,167
26-Jul	214	5,266	5,900	619	223	237	116	169	496	177	284	123	13,824
27-Jul	540	5,895	11,172	1,690	266	247	144	68	160	89	415	159	20,845
28-Jul	404	2,364	5,466	1,671	171	180	139	89	128	167	109	159	11,047
29-Jul	176	2,162	5,900	953	177	160	138	82	141	188	102	240	10,419
30-Jul	490	837	3,051	2,952	1,230	606	216	174	95	72	160	107	9,990
31-Jul	437	1,465	843	4,693	1,125	53	33	43	19	29	92	31	8,863
01-Aug	252	437	322	2,842	1,763	129	63	58	34	15	76	47	6,038
02-Aug	218	488	430	2,782	3,642	345	91	74	46	12	70	47	8,245
03-Aug	189	187	599	1,604	2,659	328	52	72	68	7	76	55	5,896
04-Aug	225	280	462	1,357	1,351	187	57	42	33	6	63	27	4,090
05-Aug	400	250	398	2,703	1,834	204	121	104	79	30	159	57	6,339
06-Aug	98	195	725	9,425	3,473	254	112	133	72	66	192	71	14,816
07-Aug	86	128	776	4,853	2,037	182	87	82	31	37	192	37	8,528
08-Aug	122	15	136	3,293	1,455	169	49	61	22	43	197	56	5,618
09-Aug	125	30	259	6,363	3,319	280	110	89	45	64	200	43	10,927
10-Aug	47	5	88	3,175	1,509	147	66	52	30	44	149	49	5,361
11-Aug	112	25	59	2,431	1,768	127	46	44	27	48	158	49	4,894
12-Aug	34	8	23	2,112	1,634	98	46	30	14	24	125	41	4,189
13-Aug	18	6	38	2,783	2,160	122	40	29	9	41	118	49	5,413
Total	16,524	132,685	85,458	76,811	43,171	15,301	7,460	16,694	12,087	5,182	5,997	3,268	420,638

Table 6. Kenal River south bank sonar counts by sector, 1 July through 13 August 1993. Counts expressed as percent of daily total.

Percent of Counts by Sector													Daily Total
Date	1	2	3	4	5	6	7	8	9	10	11	12	
01-Jul	6.3	2.2	1.4	2.2	3.0	21.4	15.3	28.5	8.9	4.7	2.4	3.8	100.1
02-Jul	7.8	1.9	2.1	7.7	9.4	33.9	8.9	17.6	5.6	2.2	1.0	1.8	99.9
03-Jul	11.4	2.4	2.2	3.0	4.6	36.1	3.2	19.0	8.2	2.5	1.5	5.7	99.8
04-Jul	3.8	0.3	0.6	10.0	9.1	10.4	14.8	35.3	4.6	5.9	3.2	1.9	99.9
05-Jul	2.2	0.3	0.2	6.3	9.5	13.7	17.8	39.6	3.6	5.0	1.3	0.5	100.0
06-Jul	5.7	3.4	3.0	7.7	6.5	6.1	13.4	32.6	4.1	5.5	9.0	3.1	100.1
07-Jul	10.5	5.6	7.1	15.8	1.7	0.6	8.4	12.8	5.7	12.2	14.4	5.2	100.0
08-Jul	1.8	2.9	4.1	18.6	2.2	1.2	9.1	17.0	7.6	11.9	20.1	3.4	99.9
09-Jul	2.5	1.4	1.1	7.5	4.8	4.3	9.2	18.9	20.2	9.0	15.0	6	99.9
10-Jul	9.6	3.5	22.5	19.7	4.6	6.3	3.0	5.9	17.1	5.3	0.1	2.4	100.0
11-Jul	18.1	4.7	13.8	17.6	2.9	3.6	2.1	7.8	21.3	7.1	0.6	0.3	99.9
12-Jul	11.4	7.5	7.7	10.0	8.7	13.8	3.3	12.7	20.2	3.6	0.3	0.9	100.1
13-Jul	9.0	17.6	30.3	14.8	8.2	11.5	1.1	1.9	3.3	1.9	0.1	0.2	99.9
14-Jul	6.0	33.3	28.6	12.3	6.1	4.7	0.6	2.7	4.3	1.1	0.1	0	99.8
15-Jul	2.0	46.9	22.6	9.4	6.9	6.4	0.4	1.9	2.8	0.6	0.0	0	99.9
16-Jul	3.3	53.8	19.5	5.7	3.8	2.9	0.8	4.1	5.2	0.8	0.1	0	100.0
17-Jul	5.4	64.9	18.5	3.0	1.4	0.9	0.6	1.5	2.0	0.3	0.0	1.4	99.9
18-Jul	9.5	64.3	12.1	3.6	3.2	2.7	0.4	1.6	1.6	0.3	0.1	0.5	99.9
19-Jul	5.0	65.1	13.8	3.8	3.4	2.0	0.5	3.1	2.5	0.4	0.1	0.3	100.0
20-Jul	5.6	69.5	19.7	1.8	0.7	0.3	0.2	0.9	0.9	0.1	0.0	0.1	99.8
21-Jul	3.6	70.3	21.0	1.9	0.5	0.5	0.2	0.8	0.9	0.2	0.0	0	99.9
22-Jul	4.4	68.3	18.3	2.3	1.4	1.2	0.5	1.7	1.3	0.2	0.1	0.1	99.8
23-Jul	5.4	59.6	12.8	3.6	3.9	2.6	1.2	5.9	4.2	0.3	0.1	0.1	99.7
24-Jul	3.5	25.4	31.4	8.2	6.2	6.3	1.4	4.7	9.9	2.3	0.5	0.1	99.9
25-Jul	1.7	40.3	38.4	4.4	3.2	3.1	0.9	2.3	3.9	1.1	0.3	0.4	100.0
26-Jul	1.5	38.1	42.7	4.5	1.6	1.7	0.8	1.2	3.6	1.3	2.1	0.9	100.0
27-Jul	2.6	28.3	53.6	8.1	1.3	1.2	0.7	0.3	0.8	0.4	2.0	0.8	100.1
28-Jul	3.7	21.4	49.5	15.1	1.5	1.6	1.3	0.8	1.2	1.5	1.0	1.4	100.0
29-Jul	1.7	20.8	56.6	9.1	1.7	1.5	1.3	0.8	1.4	1.8	1.0	2.3	100.0
30-Jul	4.9	8.4	30.5	29.5	12.3	6.1	2.2	1.7	1.0	0.7	1.6	1.1	100.0
31-Jul	4.9	16.5	9.5	53.0	12.7	0.6	0.4	0.5	0.2	0.3	1.0	0.3	99.9
01-Aug	4.2	7.2	5.3	47.1	29.2	2.1	1.0	1.0	0.6	0.2	1.3	0.8	100.0
02-Aug	2.6	5.9	5.2	33.7	44.2	4.2	1.1	0.9	0.6	0.1	0.8	0.6	99.9
03-Aug	3.2	3.2	10.2	27.2	45.1	5.6	0.9	1.2	1.2	0.1	1.3	0.9	100.1
04-Aug	5.5	6.8	11.3	33.2	33.0	4.6	1.4	1.0	0.8	0.1	1.5	0.7	99.9
05-Aug	6.3	3.9	6.3	42.6	28.9	3.2	1.9	1.6	1.2	0.5	2.5	0.9	99.8
06-Aug	0.7	1.3	4.9	63.6	23.4	1.7	0.8	0.9	0.5	0.4	1.3	0.5	100.0
07-Aug	1.0	1.5	9.1	56.9	23.9	2.1	1.0	1.0	0.4	0.4	2.3	0.4	100.0
08-Aug	2.2	0.3	2.4	58.6	25.9	3.0	0.9	1.1	0.4	0.8	3.5	1	100.1
09-Aug	1.1	0.3	2.4	58.2	30.4	2.6	1.0	0.8	0.4	0.6	1.8	0.4	100.0
10-Aug	0.9	0.1	1.6	59.2	28.1	2.7	1.2	1.0	0.6	0.8	2.8	0.9	99.9
11-Aug	2.3	0.5	1.2	49.7	36.1	2.6	0.9	0.9	0.6	1.0	3.2	1	100.0
12-Aug	0.8	0.2	0.5	50.4	39.0	2.3	1.1	0.7	0.3	0.6	3.0	1	99.9
13-Aug	0.3	0.1	0.7	51.4	39.9	2.3	0.7	0.5	0.2	0.8	2.2	0.9	100.0

Table 7. Kenal River north bank sonar counts by hour, 1 July through 13 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01-Jul	177	162	194	108	74	27	0	77	0	3	4	78	68	110	66	59	1	70	80	49	139	107	74	92	1,817
02-Jul	50	132	115	61	74	38	61	20	28	45	210	365	202	205	242	175	199	127	137	117	156	108	102	142	3,111
03-Jul	88	38	39	69	83	64	67	241	203	240	97	89	102	32	36	58	19	5	6	11	23	24	28	59	1,721
04-Jul	26	18	34	6	43	13	21	66	10	54	48	12	60	193	123	83	62	140	129	72	95	125	68	118	1,619
05-Jul	404	1,066	330	279	268	259	1,338	520	70	122	105	23	43	56	63	109	12	112	4	7	64	159	842	1,736	7,991
06-Jul	2,320	341	558	1,226	1,198	193	366	477	238	220	124	9	7	11	3	28	1	92	11	1	39	0	330	179	7,970
07-Jul	74	14	13	59	28	29	46	21	18	9	8	2	1	11	20	20	1	7	18	14	24	84	48	24	593
08-Jul	94	73	124	56	27	22	17	4	47	19	69	47	23	6	28	12	19	0	1	22	114	99	100	193	1,216
09-Jul	152	59	81	90	385	476	328	319	357	844	346	51	466	330	249	253	161	94	108	99	132	97	112	180	5,769
10-Jul	85	117	193	128	247	131	68	120	102	102	102	102	102	102	22	66	76	50	62	141	141	108	47	45	2,459
11-Jul	10	6	11	5	6	7	10	11	9	19	11	12	22	21	82	58	8	13	13	14	13	8	11	7	385
12-Jul	38	79	93	79	89	93	89	108	182	82	69	44	83	66	94	66	123	102	191	111	106	74	90	113	2,284
13-Jul	14	35	53	43	80	31	30	60	18	46	92	57	27	33	78	88	71	77	148	111	275	453	491	531	2,918
14-Jul	1,188	1,230	1,898	1,665	1,281	1,158	1,142	1,886	1,618	1,780	1,968	2,168	1,957	2,041	2,255	2,100	1,999	1,486	1,364	1,536	1,918	2,567	2,398	2,733	43,312
15-Jul	3,443	3,462	3,122	2,229	1,834	1,390	1,468	1,450	961	1,396	1,775	1,802	1,629	1,555	1,461	1,117	1,005	978	974	701	948	1,351	813	1,148	38,012
16-Jul	2,312	2,788	2,090	1,087	1,303	1,595	1,844	2,048	1,294	806	1,333	1,114	1,638	1,956	2,006	1,291	1,281	1,174	967	1,479	1,874	2,343	3,538	3,037	42,198
17-Jul	2,213	2,286	2,455	2,314	1,811	2,099	571	1,267	2,014	981	953	1,180	1,133	1,284	962	998	915	556	733	939	1,060	878	1,054	1,087	31,743
18-Jul	962	912	1,139	952	662	537	696	654	443	499	449	468	511	442	447	422	331	213	307	189	203	136	147	663	12,384
19-Jul	271	242	286	282	190	164	194	289	245	330	139	439	515	687	649	474	310	198	113	357	478	390	412	262	7,918
20-Jul	273	407	351	263	278	276	107	193	191	220	292	332	451	689	1,373	754	608	342	430	461	688	648	603	453	10,683
21-Jul	422	316	389	534	445	339	340	465	537	601	485	616	622	540	645	648	586	565	415	431	515	356	470	463	11,745
22-Jul	534	331	204	224	173	255	230	246	310	230	388	490	458	497	301	386	688	512	396	267	246	258	420	213	8,257
23-Jul	368	396	453	273	208	267	228	254	253	199	286	302	198	276	296	301	259	295	224	163	135	291	325	435	6,665
24-Jul	356	226	332	258	235	255	224	282	213	222	197	289	213	308	395	242	282	300	280	155	179	214	294	266	6,217
25-Jul	239	312	255	345	343	277	191	228	160	168	143	387	187	183	223	188	138	159	71	59	63	115	151	232	4,817
26-Jul	300	440	490	463	612	293	454	738	685	528	499	485	399	510	364	608	711	612	645	1,077	1,362	1,083	489	634	14,681
27-Jul	1,263	1,480	1,649	1,105	753	905	898	1,174	1,434	1,107	815	1,024	934	805	711	563	435	461	278	419	420	597	913	537	20,680
28-Jul	576	728	587	562	418	265	206	339	290	358	569	459	676	448	319	257	520	538	200	642	766	673	434	501	11,331
29-Jul	212	120	361	172	264	273	205	405	349	337	275	457	359	405	591	536	491	434	463	573	539	763	515	686	9,785
30-Jul	554	422	373	274	158	176	145	171	203	175	233	212	301	341	246	166	293	346	524	327	468	678	556	838	8,180
31-Jul	629	532	357	403	258	217	386	374	240	353	331	333	537	274	182	182	126	147	110	87	132	104	91	157	6,542
01-Aug	177	223	183	186	203	172	199	225	187	160	171	153	282	159	149	210	163	287	183	250	256	375	289	248	5,090
02-Aug	347	462	390	188	110	164	158	193	189	192	176	199	327	384	420	386	243	233	261	312	277	319	284	217	6,431
03-Aug	209	283	326	197	153	170	126	107	131	269	183	135	171	95	304	519	261	316	167	248	210	141	179	143	5,043
04-Aug	137	103	104	97	92	108	65	109	66	66	111	96	138	103	112	152	154	104	92	111	88	64	151	124	2,547
05-Aug	175	184	181	209	162	81	75	58	88	110	110	121	110	150	188	149	162	238	281	170	119	206	150	212	3,689
06-Aug	251	265	255	311	296	236	245	245	256	216	307	287	365	509	476	392	778	698	771	700	458	450	621	407	9,785
07-Aug	429	371	384	183	258	177	376	268	403	607	436	213	270	396	455	268	212	235	217	149	129	121	166	189	6,912
08-Aug	201	257	214	283	165	245	146	150	126	115	103	50	75	77	88	135	93	92	119	161	165	281	298	146	3,785
09-Aug	188	190	156	138	194	244	188	198	242	278	189	197	291	258	152	174	243	283	333	282	384	440	498	475	6,215
10-Aug	435	364	296	271	275	290	203	174	189	148	174	185	122	77	90	63	87	73	42	88	114	71	42	36	3,909
11-Aug	76	65	57	47	55	81	116	113	117	115	234	167	198	140	103	151	128	75	147	114	110	104	115	100	2,738
12-Aug	116	153	107	96	139	130	81	125	168	130	190	168	225	177	237	206	151	132	152	105	196	140	126	152	3,602
13-Aug	258	229	212	144	124	192	115	74	161	111	89	145	137	158	160	193	198	167	162	166	157	207	101	107	3,787
Total	22,646	21,919	21,490	17,964	16,014	14,422	14,063	16,546	15,043	14,612	14,908	15,564	16,633	17,100	17,464	15,306	14,602	13,158	12,329	13,487	15,978	17,810	18,988	20,520	388,564

Table 8. Kenal River north bank sonar counts by hour, 1 July through 13 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01-Jul	9.7	8.9	10.7	5.9	4.1	1.5	0.0	4.2	0.0	0.2	0.2	4.3	3.8	6.1	3.8	3.2	0.1	3.9	4.4	2.7	7.6	5.9	4.1	5.1	100.0
02-Jul	1.6	4.2	3.7	2.0	2.4	1.2	2.0	0.6	0.9	1.4	6.8	11.7	6.5	6.6	7.8	5.6	6.4	4.1	4.4	3.8	5.0	3.5	3.3	4.6	100.1
03-Jul	5.1	2.2	2.3	4.0	4.8	3.7	3.9	14.0	11.8	13.9	5.6	5.2	5.9	1.9	2.1	3.4	1.1	0.3	0.3	0.6	1.3	1.4	1.6	3.4	99.8
04-Jul	1.6	1.1	2.1	0.4	2.7	0.8	1.3	4.1	0.6	3.3	3.0	0.7	3.7	11.9	7.6	5.1	3.8	8.6	8.0	4.4	5.9	7.7	4.2	7.3	99.9
05-Jul	5.1	13.3	4.1	3.5	3.4	3.2	16.7	6.5	0.9	1.5	1.3	0.3	0.5	0.7	0.8	1.4	0.2	1.4	0.1	0.1	0.8	2.0	10.5	21.7	100.0
06-Jul	29.1	4.3	7.0	15.4	15.0	2.4	4.6	6.0	3.0	2.8	1.6	0.1	0.1	0.1	0.0	0.4	0.0	1.2	0.1	0.0	0.5	0.0	4.1	2.2	100.0
07-Jul	12.5	2.4	2.2	9.9	4.7	4.9	7.8	3.5	3.0	1.5	1.3	0.3	0.2	1.9	3.4	3.4	0.2	1.2	3.0	2.4	4.0	14.2	8.1	4.0	100.0
08-Jul	7.7	6.0	10.2	4.6	2.2	1.8	1.4	0.3	3.9	1.6	5.7	3.9	1.9	0.5	2.3	1.0	1.8	0.0	0.1	1.8	9.4	8.1	8.2	15.9	100.1
09-Jul	2.6	1.0	1.4	1.6	6.7	8.3	5.7	5.5	6.2	14.6	6.0	0.9	8.1	5.7	4.3	4.4	2.8	1.6	1.9	1.7	2.3	1.7	1.9	3.1	100.0
10-Jul	3.5	4.8	7.8	5.2	10.0	5.3	2.8	4.9	4.1	4.1	4.1	4.1	4.1	4.1	0.9	2.7	3.1	2.0	2.5	5.7	5.7	4.4	1.9	1.8	99.6
11-Jul	2.6	1.6	2.9	1.3	1.6	1.8	2.6	2.9	2.3	4.9	2.9	3.1	5.7	5.5	21.3	15.1	1.8	3.4	3.4	3.6	3.4	2.1	2.9	1.8	100.3
12-Jul	1.7	3.5	4.1	3.5	3.9	4.1	3.9	4.7	8.0	3.6	3.9	1.9	3.8	2.9	4.1	2.9	5.4	4.5	8.4	4.9	4.6	3.2	3.9	4.9	100.1
13-Jul	0.5	1.2	1.8	1.5	2.1	1.1	1.0	2.1	0.5	1.6	3.2	2.0	0.9	1.1	2.6	3.0	2.4	2.6	5.1	3.8	9.4	15.5	16.8	18.2	100.0
14-Jul	2.7	2.8	4.4	3.8	2.9	2.7	2.8	4.4	3.7	4.1	4.5	5.0	4.5	4.7	5.2	4.8	4.8	3.4	3.1	3.5	4.4	5.9	5.5	6.3	99.5
15-Jul	9.1	9.1	8.2	5.9	4.8	3.7	3.9	3.8	2.5	3.7	4.7	4.7	4.3	4.1	3.8	2.9	2.8	2.6	2.8	1.8	2.5	3.6	2.1	3.0	100.0
16-Jul	5.5	6.6	5.0	2.6	3.1	3.8	4.4	4.9	3.1	1.9	3.2	2.6	3.9	4.6	4.8	3.1	3.0	2.8	2.3	3.5	4.4	5.6	8.4	7.2	100.3
17-Jul	7.0	7.2	7.7	7.3	5.7	6.6	1.8	4.0	6.3	3.1	3.0	3.7	3.6	4.0	3.0	3.1	2.9	1.8	2.3	3.0	3.3	2.8	3.3	3.4	99.9
18-Jul	7.8	7.4	9.2	7.7	5.3	4.3	5.6	5.3	3.6	4.0	3.6	3.8	4.1	3.6	3.8	3.4	2.7	1.7	2.5	1.5	1.6	1.1	1.2	5.4	100.0
19-Jul	3.4	3.1	3.6	3.6	2.4	2.1	2.5	3.7	3.1	4.2	1.8	5.5	6.5	8.7	8.2	6.0	3.9	2.5	1.4	4.5	6.0	4.9	5.2	3.3	100.1
20-Jul	2.6	3.8	3.3	2.5	2.6	2.6	1.0	1.6	1.8	2.1	2.7	3.1	4.2	6.4	12.9	7.1	5.7	3.2	4.0	4.3	6.4	6.1	5.6	4.2	100.0
21-Jul	3.6	2.7	3.3	4.5	3.8	2.9	2.9	4.0	4.6	5.1	4.1	5.2	5.3	4.6	5.5	5.5	5.0	4.8	3.5	3.7	4.4	3.0	4.0	3.9	99.9
22-Jul	6.5	4.0	2.5	2.7	2.1	3.1	2.8	3.0	3.8	2.8	4.7	5.9	5.5	6.0	3.6	4.7	8.3	6.2	4.8	3.2	3.0	3.1	5.1	2.6	100.0
23-Jul	5.5	5.9	6.8	4.1	3.1	4.0	3.4	3.8	3.8	3.0	4.3	4.5	3.0	4.1	4.4	4.5	3.9	4.4	3.4	2.4	2.0	4.4	4.9	6.5	100.1
24-Jul	5.7	3.6	5.3	4.1	3.8	4.1	3.6	4.5	3.4	3.6	3.2	4.6	3.4	5.0	6.4	3.9	4.5	4.8	4.5	2.5	2.9	3.4	4.7	4.3	99.8
25-Jul	5.0	6.5	5.3	7.2	7.1	5.8	4.0	4.7	3.3	3.5	3.0	8.0	3.9	3.8	4.6	3.9	2.9	3.3	1.5	1.2	1.3	2.4	3.1	4.8	100.1
26-Jul	2.0	3.0	3.3	3.2	4.2	2.0	3.1	5.0	4.7	3.6	3.4	3.3	2.7	3.5	2.5	4.1	4.8	4.2	4.4	7.3	9.3	7.4	3.3	5.7	100.0
27-Jul	6.1	7.2	8.0	5.3	3.6	4.4	4.3	5.7	6.9	5.4	3.9	5.0	4.5	3.9	3.4	2.7	2.1	2.2	1.3	2.0	2.0	2.9	4.4	2.6	99.8
28-Jul	5.1	6.4	5.2	5.0	3.7	2.3	1.8	3.0	2.6	3.2	5.0	4.1	6.0	4.0	2.8	2.3	4.8	4.7	1.8	5.7	6.8	5.9	3.8	4.4	100.2
29-Jul	2.2	1.2	3.7	1.8	2.7	2.8	2.1	4.1	3.6	3.4	2.8	4.7	3.7	4.1	6.0	5.5	5.0	4.4	4.7	5.9	5.5	7.8	5.3	7.0	100.0
30-Jul	6.8	5.2	4.6	3.3	1.9	2.2	1.6	2.1	2.5	2.1	2.8	2.6	3.7	4.2	3.0	2.0	3.6	4.2	6.4	4.0	5.7	8.3	6.8	10.2	100.0
31-Jul	9.6	8.1	5.5	6.2	3.9	3.3	5.9	5.7	3.7	5.4	5.1	5.1	8.2	4.2	2.8	2.8	1.9	2.2	1.7	1.3	2.0	1.6	1.4	2.4	100.0
01-Aug	3.5	4.4	3.6	3.7	4.0	3.4	3.9	4.4	3.7	3.1	3.4	3.0	5.5	3.1	2.9	4.1	3.2	5.6	3.6	4.9	5.0	7.4	5.7	4.9	100.0
02-Aug	5.4	7.2	6.1	2.9	1.7	2.6	2.5	3.0	2.9	3.0	2.7	3.1	5.1	6.0	6.5	6.0	3.8	3.6	4.1	4.9	4.3	5.0	4.4	3.4	100.2
03-Aug	4.1	5.6	6.5	3.9	3.0	3.4	2.5	2.1	2.6	5.3	3.6	2.7	3.4	1.9	6.0	10.3	5.2	6.3	3.3	4.9	4.2	2.8	3.5	2.8	99.9
04-Aug	5.4	4.0	4.1	3.8	3.6	4.2	2.6	4.3	2.6	2.6	4.4	3.8	5.4	4.0	4.4	6.0	6.0	4.1	3.6	4.4	3.5	2.5	5.9	4.9	100.1
05-Aug	4.7	5.0	4.9	5.7	4.4	2.2	2.0	1.6	2.4	3.0	3.0	3.3	3.0	4.1	5.1	4.0	4.4	6.5	7.8	4.6	3.2	5.8	4.1	5.7	100.1
06-Aug	2.6	2.7	2.6	3.2	3.0	2.4	2.5	2.5	2.6	2.2	3.1	2.9	3.7	5.2	4.9	4.0	7.9	7.1	7.9	7.1	4.7	4.6	6.3	4.2	99.9
07-Aug	6.2	5.4	5.6	2.6	3.7	2.6	5.4	3.9	5.8	8.8	6.3	3.1	3.9	5.7	6.8	3.9	3.1	3.4	3.1	2.2	1.9	1.8	2.4	2.7	100.1
08-Aug	5.3	6.8	5.7	7.5	4.4	6.5	3.9	4.0	3.3	3.0	2.7	1.3	2.0	2.0	2.3	3.6	2.5	2.4	3.1	4.3	4.4	7.4	7.9	3.9	100.2
09-Aug	3	3.1	2.5	2.2	3.1	3.9	3	3.2	3.9	4.5	3	3.2	4.7	4.2	2.4	2.8	3.9	4.6	5.4	4.5	6.2	7.1	6	7.6	100.0
10-Aug	11.1	9.3	7.6	6.9	7	7.4	5.2	4.5	4.8	3.8	4.5	4.7	3.1	2	2.3	1.6	2.2	1.9	1.1	2.3	2.9	1.8	1.1	0.9	100.0
11-Aug	2.8	2.4	2.1	1.7	2	3.3	4.2	4.1	4.3	4.2	8.5	6.1	7.2	5.1	3.8	5.5	4.7	2.7	5.4	4.2	4	3.8	4.2	3.7	100.0
12-Aug	3.2	4.2	3	2.7	3.9	3.6	2.2	3.5	4.7	3.6	5.3	4.7	6.2	4.9	6.6	5.7	4.2	3.7	4.2	2.9	5.4	3.9	3.5	4.2	100.0
13-Aug	6.8	6	5.6	3.8	3.3	5.1	3	2	4.3	2.9	2.4	3.8	3.8	4.2	4.2	5.1	5.2	4.9	4.3	4.4	4.1	5.5	2.7	2.8	100.0

Table 9. Kernal River south bank sonar counts by hour, 1 July through 13 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01-Jul	9	8	3	7	11	27	10	8	66	66	66	88	101	114	85	136	118	115	129	86	66	61	93	94	1,567
02-Jul	66	66	51	40	45	63	63	48	64	65	134	145	114	66	83	111	88	66	56	52	38	38	34	36	1,632
03-Jul	20	34	31	40	24	38	48	54	33	46	48	55	78	54	36	27	32	36	38	50	20	22	20	21	905
04-Jul	38	23	25	14	23	32	51	79	76	87	72	70	170	226	226	298	285	197	244	314	359	315	108	183	3,515
05-Jul	253	236	269	246	302	150	235	379	346	308	308	261	239	277	547	284	318	373	286	279	249	167	149	214	6,675
06-Jul	551	597	515	590	532	396	446	469	505	445	448	394	325	213	311	354	354	165	224	174	149	163	136	104	8,560
07-Jul	79	146	92	85	82	120	139	102	137	184	130	56	83	81	129	73	117	124	118	157	100	65	115	75	2,589
08-Jul	119	135	95	83	43	126	71	71	70	74	88	98	154	69	153	189	181	91	138	234	276	236	135	161	3,090
09-Jul	201	203	248	413	469	492	538	194	238	149	68	52	155	234	203	233	241	221	192	206	191	258	132	125	5,658
10-Jul	112	211	196	128	50	86	70	45	84	48	36	34	25	50	43	33	21	37	24	38	32	35	34	58	1,530
11-Jul	49	79	65	47	35	23	52	37	39	27	35	27	29	24	37	45	21	87	33	38	38	48	68	49	1,032
12-Jul	60	87	37	47	31	33	26	34	43	54	67	121	86	61	30	42	97	114	53	89	46	92	113	131	1,594
13-Jul	124	87	65	143	118	136	78	218	53	59	82	48	99	49	55	61	74	94	142	249	621	914	803	613	4,685
14-Jul	517	275	371	543	398	649	323	451	691	847	574	620	1,783	2,468	2,027	4,353	4,823	3,778	3,196	2,385	3,063	3,971	2,650	4,347	45,421
15-Jul	4,253	3,734	2,861	2,378	1,148	825	1,594	1,425	1,658	634	482	947	756	950	1,260	1,216	1,115	1,089	1,706	1,066	3,063	3,971	2,650	4,347	36,545
16-Jul	1,684	1,470	2,187	2,073	1,306	1,074	1,178	645	643	516	432	1,043	1,155	1,422	1,270	1,916	2,776	2,903	3,122	2,326	2,283	1,177	1,715	2,387	38,703
17-Jul	3,471	3,137	3,252	2,587	2,237	1,911	1,651	1,140	979	679	792	776	1,367	1,153	1,061	450	1,091	1,777	1,462	1,976	1,205	982	1,060	1,208	37,424
18-Jul	1,935	1,333	914	920	857	518	651	532	491	213	256	361	413	540	540	540	241	140	102	275	345	382	257	225	12,981
19-Jul	452	354	228	247	244	197	199	181	264	245	264	193	289	361	240	178	195	181	128	266	270	330	134	247	5,883
20-Jul	256	163	248	195	303	225	169	157	114	120	213	426	385	356	498	1,339	792	528	264	416	245	606	451	236	8,705
21-Jul	114	119	141	324	328	144	83	312	511	480	702	566	356	563	578	744	466	360	470	207	156	297	498	306	8,825
22-Jul	223	266	151	61	122	113	106	180	222	220	220	151	230	216	289	454	190	353	422	397	219	336	398	489	6,028
23-Jul	375	229	100	185	173	185	127	142	143	122	158	228	103	69	119	129	162	198	159	123	172	238	160	70	3,869
24-Jul	103	62	32	29	80	115	102	81	95	123	159	215	210	178	238	233	168	161	256	248	166	88	143	130	3,415
25-Jul	84	56	40	67	30	61	83	97	95	80	94	101	192	187	111	113	155	228	318	457	445	378	358	337	4,167
26-Jul	417	298	175	213	440	533	632	566	362	241	496	349	204	396	519	373	510	828	709	1,319	1,505	797	1,118	828	13,824
27-Jul	1,528	831	555	420	462	555	996	1,193	897	1,516	2,098	1,365	1,244	695	1,079	751	666	743	724	450	467	521	367	702	20,845
28-Jul	641	349	301	209	196	271	305	247	268	368	372	687	428	408	346	593	430	658	989	582	400	778	884	337	11,047
29-Jul	283	247	218	134	116	286	298	494	335	335	360	439	607	695	628	796	519	522	454	686	739	345	427	456	10,419
30-Jul	764	529	459	352	224	291	280	268	190	271	359	569	377	420	364	481	478	470	479	440	453	348	463	661	9,990
31-Jul	873	792	525	393	260	224	284	292	312	303	324	427	274	378	445	503	359	288	222	250	263	307	343	224	8,863
01-Aug	310	272	204	161	176	157	175	237	245	230	206	235	218	373	373	284	285	161	155	345	293	237	367	339	6,038
02-Aug	347	383	322	218	183	164	170	234	247	169	211	307	383	602	587	488	588	544	239	386	377	443	347	306	8,245
03-Aug	223	313	344	234	113	131	116	51	178	272	159	221	310	259	228	332	457	300	250	252	217	252	371	313	5,896
04-Aug	337	238	207	213	102	115	89	79	66	85	94	88	156	151	103	191	286	286	232	229	161	154	214	214	4,090
05-Aug	202	201	201	345	244	153	145	117	124	158	121	190	223	173	163	236	368	410	525	419	270	344	492	515	6,339
06-Aug	508	290	444	543	607	431	478	430	356	327	314	284	382	544	739	553	1,219	1,148	1,229	913	749	845	791	692	14,816
07-Aug	629	396	349	189	221	225	249	220	360	377	80	286	379	113	233	311	369	368	377	899	612	539	388	359	8,528
08-Aug	316	234	227	163	143	124	155	161	142	146	94	105	108	87	162	169	223	243	432	486	439	500	353	406	5,618
09-Aug	402	361	333	331	425	584	655	582	531	385	383	400	430	324	398	237	632	392	334	615	613	571	541	468	10,927
10-Aug	326	269	280	216	115	184	270	334	246	241	189	132	213	182	142	171	135	129	150	155	280	312	349	341	5,361
11-Aug	170	113	133	101	87	159	217	267	250	243	224	208	211	165	258	311	322	315	174	266	224	177	145	154	4,894
12-Aug	184	76	80	73	42	89	90	155	135	178	184	144	125	237	145	198	232	255	344	295	293	222	212	201	4,189
13-Aug	118	72	115	113	62	63	122	197	238	207	128	306	223	211	324	367	315	237	280	294	373	382	303	363	5,413
Total	23,726	19,374	17,687	16,113	13,207	12,478	13,819	13,205	13,142	11,943	12,324	13,818	15,392	16,392	17,405	20,896	22,514	21,709	21,578	21,409	20,655	21,117	19,961	20,774	420,638

Table 10. Keral River south bank sonar counts by hour, 1 July through 13 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01-Jul	0.6	0.5	0.2	0.4	0.7	1.7	0.8	0.5	4.2	4.2	4.2	5.6	6.4	7.3	5.4	8.7	7.5	7.3	8.2	5.5	4.2	3.9	5.9	6.0	99.7
02-Jul	4.0	4.0	3.1	2.5	2.8	3.9	3.9	2.9	3.9	4.0	8.2	8.9	7.0	4.0	5.1	6.8	5.4	4.0	3.4	3.2	2.3	2.3	2.1	2.2	99.9
03-Jul	2.2	3.8	3.4	4.4	2.7	4.2	5.3	6.0	3.6	5.1	5.3	6.1	8.6	6.0	4.0	3.0	3.5	4.0	4.2	5.5	2.2	2.4	2.2	2.3	100.0
04-Jul	1.1	0.7	0.7	0.4	0.7	0.9	1.5	2.2	2.2	2.5	2.0	2.0	4.8	6.4	6.4	8.5	8.1	5.6	6.9	8.9	10.2	9.0	3.1	5.2	100.0
05-Jul	3.8	3.5	4.0	3.7	4.5	2.2	3.5	5.7	5.2	4.6	4.6	3.9	3.6	4.1	8.2	4.3	4.8	5.6	4.3	4.2	3.7	2.5	2.2	3.2	99.9
06-Jul	6.4	7.0	6.0	6.9	6.2	4.6	5.2	5.5	5.9	5.2	5.2	4.6	3.8	2.5	3.6	4.1	4.1	1.9	2.6	2.0	1.7	1.9	1.6	1.2	99.7
07-Jul	3.1	5.6	3.6	3.3	3.2	4.6	5.4	3.9	5.3	7.1	5.0	2.2	3.2	3.1	5.0	2.8	4.5	4.8	4.6	6.1	3.9	2.5	4.4	2.9	100.1
08-Jul	3.9	4.4	3.1	2.7	1.4	4.1	2.3	2.3	2.3	2.4	2.8	3.2	5.0	2.2	5.0	6.1	5.9	2.9	4.5	7.6	8.9	7.6	4.4	5.2	100.2
09-Jul	3.6	3.6	4.4	7.3	6.3	8.7	9.5	3.4	4.2	2.6	1.2	0.9	2.7	4.1	3.6	4.1	4.3	3.9	3.4	3.6	3.4	4.6	2.3	2.2	99.9
10-Jul	7.3	13.8	12.8	6.4	3.3	5.6	4.8	2.9	5.5	3.1	2.4	2.2	1.6	3.3	2.8	2.2	1.4	2.4	1.6	2.5	2.1	2.3	2.2	3.8	100.1
11-Jul	4.7	7.7	6.3	4.6	3.4	2.2	5.0	3.6	3.8	2.6	3.4	2.6	2.8	2.3	3.6	4.4	2.0	8.4	3.2	3.7	3.7	4.7	6.6	4.7	100.0
12-Jul	3.8	5.5	2.3	2.9	1.9	2.1	1.6	2.1	2.7	3.4	4.2	7.6	5.4	3.8	1.9	2.6	6.1	7.2	3.3	5.6	2.9	5.8	7.1	8.2	100.0
13-Jul	2.5	1.7	1.3	2.9	2.4	2.7	1.6	4.4	1.1	1.2	1.6	1.0	2.0	1.0	1.1	1.2	1.5	1.9	2.8	5.0	12.5	18.3	16.1	12.3	100.1
14-Jul	1.1	0.6	0.8	1.2	0.9	1.4	0.7	1.0	1.5	1.9	1.3	1.4	3.9	5.4	4.5	9.6	10.6	8.3	7.0	5.3	6.8	8.7	6.5	9.8	100.0
15-Jul	11.6	10.2	7.8	6.5	3.1	2.3	4.4	3.9	4.5	1.7	1.3	2.6	2.1	2.6	3.4	3.3	3.1	3.0	4.7	3.0	3.2	5.0	3.8	2.9	100.0
16-Jul	4.4	3.8	5.7	5.4	3.4	2.6	3.0	1.7	1.7	1.3	1.1	2.7	3.0	3.7	3.3	5.0	7.2	7.5	8.1	6.0	5.9	3.0	4.4	6.2	100.3
17-Jul	9.3	8.4	8.7	6.9	6.0	5.1	4.4	3.0	2.6	1.8	2.1	2.1	3.7	3.1	2.8	1.2	2.9	4.7	3.9	5.3	3.2	2.6	2.9	3.2	99.9
18-Jul	14.9	10.3	7.0	7.1	6.6	4.0	5.0	4.1	3.8	1.6	2.0	2.8	3.2	4.2	4.2	1.9	1.1	0.8	2.1	2.7	2.9	2.0	1.7	10.2	100.2
19-Jul	7.7	6.0	3.8	4.2	4.1	3.3	3.4	3.1	4.5	4.2	4.5	3.3	4.9	6.1	4.1	3.0	3.3	3.1	2.1	4.5	4.6	5.6	2.3	4.2	99.9
20-Jul	2.9	1.9	2.8	2.2	3.5	2.6	1.8	1.8	1.3	1.4	2.4	4.9	4.4	4.1	5.7	15.4	9.1	6.1	3.0	4.8	2.8	7.0	5.2	2.7	99.9
21-Jul	1.3	1.3	1.6	3.7	3.7	1.6	0.9	3.5	5.8	5.4	8.0	6.4	4.0	6.4	6.5	8.4	5.3	4.1	5.3	2.3	1.8	3.4	5.6	3.5	99.8
22-Jul	3.7	4.4	2.5	1.0	2.0	1.9	1.8	3.0	3.7	3.6	3.6	2.5	3.8	3.6	4.8	7.5	3.2	5.9	7.0	6.6	3.6	5.6	6.6	8.1	100.0
23-Jul	9.7	5.9	2.6	4.8	4.5	4.8	3.3	3.7	3.7	3.2	4.1	5.9	2.7	1.8	3.1	3.3	4.2	5.1	4.1	3.2	4.4	6.2	4.1	1.8	100.2
24-Jul	3.0	1.8	0.9	0.8	2.3	3.4	3.0	2.4	2.8	3.6	4.7	6.3	6.1	5.2	7.0	6.8	4.9	4.7	7.5	7.3	4.9	2.6	4.2	3.8	100.0
25-Jul	2.0	1.3	1.0	1.8	0.7	1.5	2.0	2.3	2.3	1.9	2.3	2.4	4.6	4.5	2.7	2.7	3.7	5.5	7.6	11.0	10.7	9.1	6.6	8.1	100.1
26-Jul	3.0	2.2	1.3	1.5	3.2	3.9	4.6	4.1	2.6	1.7	3.6	2.5	1.5	2.9	3.8	2.7	3.7	6.0	5.1	9.5	10.9	5.8	8.1	6.0	100.2
27-Jul	7.3	4.0	2.7	2.0	2.2	2.7	4.8	5.7	4.3	7.3	10.1	6.5	6.0	3.3	5.2	3.6	3.2	3.6	3.5	2.2	2.2	2.5	1.9	3.4	100.2
28-Jul	5.8	3.2	2.7	1.9	1.8	2.5	2.8	2.2	2.4	3.3	3.4	6.2	3.9	3.7	3.1	5.4	3.9	6.0	9.0	5.3	3.6	7.0	8.0	3.1	100.2
29-Jul	2.7	2.4	2.1	1.3	1.1	2.7	2.9	4.7	3.2	3.2	3.5	4.2	5.8	6.7	6.0	7.6	5.0	5.0	4.4	6.6	7.1	3.3	4.1	4.4	100.0
30-Jul	7.6	5.3	4.6	3.5	2.2	2.9	2.8	2.7	1.9	2.7	3.6	5.7	3.8	4.2	3.6	4.8	4.8	4.7	4.8	4.4	4.5	3.5	4.6	6.6	99.8
31-Jul	9.8	8.9	5.9	4.4	2.9	2.5	3.2	3.3	3.5	3.4	3.7	4.8	3.1	4.3	5.0	5.7	4.1	3.2	2.5	2.8	3.0	3.5	3.9	2.5	99.9
01-Aug	5.1	4.5	3.4	2.7	2.9	2.6	2.9	3.9	4.1	3.8	3.4	3.9	3.6	6.2	6.2	4.7	4.7	2.7	2.8	5.7	4.9	3.9	6.1	5.6	100.1
02-Aug	4.2	4.6	3.9	2.6	2.2	2.0	2.1	2.6	3.0	2.0	2.6	3.7	4.6	7.3	7.1	5.9	7.1	6.6	2.9	4.7	4.6	5.4	4.2	3.7	99.8
03-Aug	3.8	5.3	5.8	4.0	1.9	2.2	2.0	0.9	3.0	4.8	2.7	3.7	5.3	4.4	3.9	5.6	7.8	5.1	4.2	4.3	3.7	4.3	6.3	5.3	100.1
04-Aug	8.2	5.8	5.1	5.2	2.5	2.8	2.2	1.9	1.6	2.1	2.3	2.2	3.8	3.7	2.5	4.7	7.0	7.0	5.7	5.6	3.9	3.6	5.2	5.2	100.0
05-Aug	3.2	3.2	3.2	5.4	3.8	2.4	2.3	1.8	2.0	2.5	1.9	3.0	3.5	2.7	2.6	3.7	5.8	6.5	8.3	6.6	4.3	5.4	7.8	8.1	100.0
06-Aug	3.4	2.0	3.0	3.7	4.1	2.9	3.2	2.9	2.4	2.2	2.1	1.9	2.6	3.7	5.0	3.7	8.2	7.7	8.3	6.2	5.1	5.7	5.3	4.7	100.0
07-Aug	7.4	4.6	4.1	2.2	2.6	2.6	2.9	2.6	4.2	4.4	0.9	3.4	4.4	1.3	2.7	3.6	4.3	4.3	4.4	10.5	7.2	6.3	4.5	4.2	99.6
08-Aug	5.6	4.2	4.0	2.9	2.5	2.2	2.8	2.9	2.5	2.6	1.7	1.9	1.9	1.5	2.9	3.0	4.0	4.3	7.7	8.7	7.8	8.9	6.3	7.2	100.0
09-Aug	3.7	3.3	3	3	3.9	5.3	6	5.3	4.9	3.5	3.5	3.7	3.9	3	3.6	2.2	5.8	3.6	3.1	5.6	5.6	5.2	5	4.3	100.0
10-Aug	6.1	5	5.2	4	2.1	3.4	5	6.2	4.6	4.5	3.5	2.5	4	3.4	2.6	3.2	2.5	2.4	2.8	2.9	5.2	5.8	6.5	6.4	99.8
11-Aug	3.5	2.3	2.7	2.1	1.8	3.2	4.4	5.5	5.1	5	4.6	4.3	4.3	3.4	5.3	6.4	6.6	6.4	3.6	5.4	4.6	3.6	3	3.1	100.2
12-Aug	4.4	1.8	1.9	1.7	1	2.1	2.1	3.7	3.2	4.2	4.4	3.4	3	5.7	3.5	4.7	5.5	6.1	8.2	7	7	5.3	5.1	4.8	99.8
13-Aug	2.2	1.3	2.1	2.1	1.1	1.2	2.3	3.6	4.4	3.8	2.4	5.7	4.1	3.9	6	6.8	5.8	4.4	5.2	5.4	6.9	7.1	5.6	6.7	100.1

Table 11. Estimated salmon escapement adjacent to the north bank of the Kasilof River, 12 June through 5 August 1993.

Date	SOCKEYE		PINK		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum
12-Jun	136	136	0	0	0	0
13-Jun	269	405	0	0	0	0
14-Jun	239	644	0	0	0	0
15-Jun	201	845	0	0	0	0
16-Jun	304	1,149	0	0	0	0
17-Jun	382	1,531	0	0	0	0
18-Jun	617	2,148	0	0	0	0
19-Jun	716	2,864	0	0	0	0
20-Jun	841	3,705	0	0	0	0
21-Jun	664	4,369	0	0	0	0
22-Jun	512	4,881	0	0	0	0
23-Jun	244	5,125	0	0	0	0
24-Jun	614	5,739	0	0	0	0
25-Jun	1,337	7,076	0	0	0	0
26-Jun	1,368	8,444	0	0	0	0
27-Jun	1,004	9,448	0	0	0	0
28-Jun	1,012	10,460	0	0	0	0
29-Jun	582	11,042	0	0	0	0
30-Jun	890	11,932	0	0	0	0
01-Jul	913	12,845	0	0	0	0
02-Jul	611	13,456	0	0	0	0
03-Jul	405	13,861	0	0	0	0
04-Jul	564	14,425	0	0	0	0
05-Jul	625	15,050	0	0	0	0
06-Jul	539	15,589	0	0	0	0
07-Jul	792	16,381	0	0	0	0
08-Jul	1,096	17,477	0	0	0	0
09-Jul	1,020	18,497	0	0	0	0
10-Jul	1,219	19,716	0	0	0	0
11-Jul	1,477	21,193	0	0	0	0
12-Jul	2,276	23,469	0	0	0	0
13-Jul	1,663	25,132	0	0	0	0
14-Jul	1,359	26,491	0	0	0	0
15-Jul	2,018	28,509	0	0	0	0
16-Jul	2,531	31,040	0	0	0	0
17-Jul	1,116	32,156	0	0	0	0
18-Jul	764	32,920	0	0	0	0
19-Jul	965	33,885	0	0	0	0
20-Jul	689	34,574	0	0	0	0
21-Jul	760	35,334	0	0	0	0
22-Jul	597	35,931	0	0	0	0
23-Jul	805	36,736	0	0	0	0
24-Jul	745	37,481	0	0	0	0
25-Jul	662	38,143	0	0	0	0
26-Jul	490	38,633	0	0	0	0
27-Jul	439	39,072	0	0	0	0
28-Jul	448	39,520	0	0	0	0
29-Jul	408	39,928	0	0	0	0
30-Jul	491	40,419	0	0	0	0
31-Jul	219	40,638	0	0	0	0
01-Aug	176	40,814	0	0	0	0
02-Aug	125	40,939	0	0	0	0
03-Aug	114	41,053	0	0	0	0
04-Aug	141	41,194	0	0	0	0
05-Aug	127	41,321	0	0	0	0

Table 12. Estimated salmon escapement adjacent to the south bank of the Kasilof River, 12 June through 5 August 1993.

Date	SOCKEYE		PINK		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum
12-Jun	1,556	1,556	0	0	0	0
13-Jun	1,990	3,546	0	0	0	0
14-Jun	2,292	5,838	0	0	0	0
15-Jun	1,155	6,993	0	0	0	0
16-Jun	1,520	8,513	0	0	0	0
17-Jun	1,000	9,513	0	0	0	0
18-Jun	1,781	11,294	0	0	0	0
19-Jun	1,319	12,613	0	0	0	0
20-Jun	1,370	13,983	0	0	0	0
21-Jun	1,390	15,373	0	0	0	0
22-Jun	1,146	16,519	0	0	0	0
23-Jun	1,432	17,951	0	0	0	0
24-Jun	3,159	21,110	0	0	0	0
25-Jun	4,285	25,395	0	0	0	0
26-Jun	4,710	30,105	0	0	0	0
27-Jun	4,431	34,536	0	0	0	0
28-Jun	2,597	37,133	0	0	0	0
29-Jun	1,300	38,433	0	0	0	0
30-Jun	3,205	41,638	0	0	0	0
01-Jul	3,333	44,971	0	0	0	0
02-Jul	4,430	49,401	0	0	0	0
03-Jul	991	50,392	0	0	0	0
04-Jul	1,355	51,747	0	0	0	0
05-Jul	2,077	53,824	0	0	0	0
06-Jul	672	54,496	0	0	0	0
07-Jul	3,518	58,014	0	0	0	0
08-Jul	5,053	63,067	0	0	0	0
09-Jul	645	63,712	0	0	0	0
10-Jul	239	63,951	0	0	0	0
11-Jul	543	64,494	0	0	0	0
12-Jul	455	64,949	0	0	0	0
13-Jul	11,924	76,873	0	0	0	0
14-Jul	2,661	79,534	0	0	0	0
15-Jul	4,071	83,605	0	0	0	0
16-Jul	4,035	87,640	0	0	0	0
17-Jul	823	88,463	0	0	0	0
18-Jul	965	89,428	0	0	0	0
19-Jul	842	90,270	0	0	0	0
20-Jul	992	91,262	0	0	0	0
21-Jul	637	91,899	0	0	0	0
22-Jul	615	92,514	0	0	0	0
23-Jul	2,271	94,785	0	0	0	0
24-Jul	1,514	96,299	0	0	0	0
25-Jul	1,831	98,130	0	0	0	0
26-Jul	1,276	99,406	0	0	0	0
27-Jul	976	100,382	0	0	0	0
28-Jul	2,015	102,397	0	0	0	0
29-Jul	1,349	103,746	0	0	0	0
30-Jul	1,132	104,878	0	0	0	0
31-Jul	498	105,376	0	0	0	0
01-Aug	667	106,043	0	0	0	0
02-Aug	1,055	107,098	0	0	0	0
03-Aug	583	107,681	0	0	0	0
04-Aug	502	108,183	0	0	0	0
05-Aug	435	108,618	0	0	0	0

Table 13. Kasilof River north bank sonar counts by sector, 12 June through 5 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
12-Jun	32	35	14	11	8	7	0	0	1	7	6	15	136
13-Jun	65	105	25	11	23	12	0	0	3	4	5	16	269
14-Jun	23	40	25	40	44	9	3	1	0	10	4	40	239
15-Jun	21	31	12	16	5	8	4	0	0	7	12	85	201
16-Jun	20	30	23	18	7	17	3	3	1	13	25	144	304
17-Jun	16	17	24	15	9	14	1	2	3	10	20	251	382
18-Jun	22	35	29	34	14	23	8	4	2	10	45	391	617
19-Jun	32	33	37	29	13	25	6	6	1	6	48	480	716
20-Jun	39	47	39	58	12	19	7	8	3	22	59	528	841
21-Jun	16	33	43	75	42	46	20	15	12	45	52	265	664
22-Jun	22	32	39	25	25	22	13	11	11	29	43	240	512
23-Jun	20	36	37	40	18	14	7	6	3	22	20	21	244
24-Jun	22	78	111	101	57	35	21	13	10	40	52	74	614
25-Jun	51	242	299	228	119	55	48	38	32	73	54	98	1,337
26-Jun	79	327	329	170	103	94	56	27	31	53	28	71	1,368
27-Jun	68	298	160	112	57	51	36	46	33	46	37	60	1,004
28-Jun	88	298	184	102	86	61	24	29	27	45	24	44	1,012
29-Jun	56	177	83	60	44	40	18	15	18	24	20	27	582
30-Jun	128	229	131	72	73	91	27	23	17	43	27	29	890
01-Jul	162	230	128	61	77	115	28	20	22	27	10	33	913
02-Jul	122	149	69	48	57	56	20	18	27	12	9	24	611
03-Jul	66	95	36	26	36	83	19	11	6	14	4	9	405
04-Jul	103	120	51	43	49	120	16	13	9	16	10	14	564
05-Jul	136	118	72	78	42	30	45	23	14	31	21	15	625
06-Jul	117	84	56	66	85	20	27	10	11	19	19	25	539
07-Jul	229	158	86	79	79	43	31	15	12	21	13	26	792
08-Jul	380	196	112	101	47	66	48	26	26	32	19	43	1,096
09-Jul	199	166	175	116	112	102	43	30	30	13	13	21	1,020
10-Jul	422	203	161	149	157	63	15	8	4	10	12	15	1,219
11-Jul	457	122	190	226	220	127	39	16	13	31	13	23	1,477
12-Jul	1,207	271	178	148	107	146	47	33	45	57	18	19	2,276
13-Jul	689	129	108	60	74	94	59	118	116	119	43	54	1,663
14-Jul	539	114	47	60	96	152	59	63	77	93	27	32	1,359
15-Jul	1,024	168	109	125	80	161	46	69	60	103	39	34	2,018
16-Jul	1,387	195	120	140	138	213	55	77	53	94	20	39	2,531
17-Jul	439	129	77	58	62	113	31	35	67	66	19	20	1,116
18-Jul	242	67	68	68	53	91	27	40	23	64	7	14	764
19-Jul	267	102	67	68	95	93	45	60	25	77	36	30	965
20-Jul	220	108	54	52	55	60	18	34	9	35	25	19	689
21-Jul	168	116	74	69	48	82	33	37	26	55	25	27	760
22-Jul	153	95	50	55	52	70	28	36	10	33	8	7	597
23-Jul	251	88	57	57	63	89	29	56	18	67	14	16	805
24-Jul	228	103	82	46	41	74	19	21	18	22	55	36	745
25-Jul	203	78	68	53	59	97	12	23	20	14	15	20	662
26-Jul	187	58	56	50	49	60	6	6	1	8	3	6	490
27-Jul	179	25	36	35	40	56	3	9	6	33	9	8	439
28-Jul	214	26	31	25	17	41	7	18	5	31	13	20	448
29-Jul	254	18	19	15	24	14	2	6	4	30	10	12	408
30-Jul	335	23	25	10	14	31	2	5	7	18	12	9	491
31-Jul	85	10	29	29	10	25	1	4	5	10	6	5	219
01-Aug	56	18	8	12	21	21	0	4	6	4	10	16	176
02-Aug	58	8	16	5	9	9	0	0	7	3	1	9	125
03-Aug	35	13	5	6	11	15	0	3	4	7	6	9	114
04-Aug	61	10	6	7	11	22	2	1	2	13	4	2	141
05-Aug	63	8	7	3	9	14	1	2	3	9	1	7	127
Total	11,757	5,744	4,177	3,466	2,958	3,311	1,165	1,197	999	1,800	1,150	3,597	41,321

Table 14. Kasilof River north bank sonar counts by sector, 12 June through 5 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
12-Jun	23.5	25.7	10.3	8.1	5.9	5.1	0.0	0.0	0.7	5.1	4.4	11.0	99.8
13-Jun	24.2	39.0	9.3	4.1	8.6	4.5	0.0	0.0	1.1	1.5	1.9	5.9	100.1
14-Jun	9.6	16.7	10.5	16.7	18.4	3.8	1.3	0.4	0.0	4.2	1.7	16.7	100.0
15-Jun	10.4	15.4	6.0	8.0	2.5	4.0	2.0	0.0	0.0	3.5	6.0	42.3	100.1
16-Jun	6.6	9.9	7.6	5.9	2.3	5.6	1.0	1.0	0.3	4.3	8.2	47.4	100.1
17-Jun	4.2	4.5	6.3	3.9	2.4	3.7	0.3	0.5	0.8	2.6	5.2	65.7	100.1
18-Jun	3.6	5.7	4.7	5.5	2.3	3.7	1.3	0.6	0.3	1.6	7.3	63.4	100.0
19-Jun	4.5	4.6	5.2	4.1	1.8	3.5	0.8	0.8	0.1	0.8	6.7	67.0	99.9
20-Jun	4.6	5.6	4.6	6.9	1.4	2.3	0.8	1.0	0.4	2.6	7.0	62.8	100.0
21-Jun	2.4	5.0	6.5	11.3	6.3	6.9	3.0	2.3	1.8	6.8	7.8	39.9	100.0
22-Jun	4.3	6.3	7.6	4.9	4.9	4.3	2.5	2.1	2.1	5.7	8.4	46.9	100.0
23-Jun	8.2	14.8	15.2	16.4	7.4	5.7	2.9	2.5	1.2	9.0	8.2	8.6	100.1
24-Jun	3.6	12.7	18.1	16.4	9.3	5.7	3.4	2.1	1.6	6.5	8.5	12.1	100.0
25-Jun	3.8	18.1	22.4	17.1	8.9	4.1	3.6	2.8	2.4	5.5	4.0	7.3	100.0
26-Jun	5.8	23.9	24.0	12.4	7.5	6.9	4.1	2.0	2.3	3.9	2.0	5.2	100.0
27-Jun	6.8	29.7	15.9	11.2	5.7	5.1	3.6	4.6	3.3	4.6	3.7	6.0	100.2
28-Jun	8.7	29.4	18.2	10.1	8.5	6.0	2.4	2.9	2.7	4.4	2.4	4.3	100.0
29-Jun	9.6	30.4	14.3	10.3	7.6	6.9	3.1	2.6	3.1	4.1	3.4	4.6	100.0
30-Jun	14.4	25.7	14.7	8.1	8.2	10.2	3.0	2.6	1.9	4.8	3.0	3.3	99.9
01-Jul	17.7	25.2	14.0	6.7	8.4	12.6	3.1	2.2	2.4	3.0	1.1	3.6	100.0
02-Jul	20.0	24.4	11.3	7.9	9.3	9.2	3.3	2.9	4.4	2.0	1.5	3.9	100.1
03-Jul	16.3	23.5	8.9	6.4	8.9	20.5	4.7	2.7	1.5	3.5	1.0	2.2	100.1
04-Jul	18.3	21.3	9.0	7.6	8.7	21.3	2.8	2.3	1.6	2.8	1.8	2.5	100.0
05-Jul	21.8	18.9	11.5	12.5	6.7	4.8	7.2	3.7	2.2	5.0	3.4	2.4	100.1
06-Jul	21.7	15.6	10.4	12.2	15.8	3.7	5.0	1.9	2.0	3.5	3.5	4.6	99.9
07-Jul	28.9	19.9	10.9	10.0	10.0	5.4	3.9	1.9	1.5	2.7	1.6	3.3	100.0
08-Jul	34.7	17.9	10.2	9.2	4.3	6.0	4.4	2.4	2.4	2.9	1.7	3.9	100.0
09-Jul	19.5	16.3	17.2	11.4	11.0	10.0	4.2	2.9	2.9	1.3	1.3	2.1	100.1
10-Jul	34.6	16.7	13.2	12.2	12.9	5.2	1.2	0.7	0.3	0.8	1.0	1.2	100.0
11-Jul	30.9	8.3	12.9	15.3	14.9	8.6	2.6	1.1	0.9	2.1	0.9	1.6	100.1
12-Jul	53.0	11.9	7.8	6.5	4.7	6.4	2.1	1.4	2.0	2.5	0.8	0.8	99.9
13-Jul	41.4	7.8	6.5	3.6	4.4	5.7	3.5	7.1	7.0	7.2	2.6	3.2	100.0
14-Jul	39.7	8.4	3.5	4.4	7.1	11.2	4.3	4.6	5.7	6.8	2.0	2.4	100.1
15-Jul	50.7	8.3	5.4	6.2	4.0	8.0	2.3	3.4	3.0	5.1	1.9	1.7	100.0
16-Jul	54.8	7.7	4.7	5.5	5.5	8.4	2.2	3.0	2.1	3.7	0.8	1.5	99.9
17-Jul	39.3	11.6	6.9	5.2	5.6	10.1	2.8	3.1	6.0	5.9	1.7	1.8	100.0
18-Jul	31.7	8.8	8.9	8.9	6.9	11.9	3.5	5.2	3.0	8.4	0.9	1.8	99.9
19-Jul	27.7	10.6	6.9	7.0	9.8	9.6	4.7	6.2	2.6	8.0	3.7	3.1	99.9
20-Jul	31.9	15.7	7.8	7.5	8.0	8.7	2.6	4.9	1.3	5.1	3.6	2.8	99.9
21-Jul	22.1	15.3	9.7	9.1	6.3	10.8	4.3	4.9	3.4	7.2	3.3	3.6	100.0
22-Jul	25.6	15.9	8.4	9.2	8.7	11.7	4.7	6.0	1.7	5.5	1.3	1.2	99.9
23-Jul	31.2	10.9	7.1	7.1	7.8	11.1	3.6	7.0	2.2	8.3	1.7	2.0	100.0
24-Jul	30.6	13.8	11.0	6.2	5.5	9.9	2.6	2.8	2.4	3.0	7.4	4.8	100.0
25-Jul	30.7	11.8	10.3	8.0	8.9	14.7	1.8	3.5	3.0	2.1	2.3	3.0	100.1
26-Jul	38.2	11.8	11.4	10.2	10.0	12.2	1.2	1.2	0.2	1.6	0.6	1.2	99.8
27-Jul	40.8	5.7	8.2	8.0	9.1	12.8	0.7	2.1	1.4	7.5	2.1	1.8	100.2
28-Jul	47.8	5.8	6.9	5.6	3.8	9.2	1.6	4.0	1.1	6.9	2.9	4.5	100.1
29-Jul	62.3	4.4	4.7	3.7	5.9	3.4	0.5	1.5	1.0	7.4	2.5	2.9	100.2
30-Jul	68.2	4.7	5.1	2.0	2.9	6.3	0.4	1.0	1.4	3.7	2.4	1.8	99.9
31-Jul	38.8	4.6	13.2	13.2	4.6	11.4	0.5	1.8	2.3	4.6	2.7	2.3	100.0
01-Aug	31.8	10.2	4.5	6.8	11.9	11.9	0.0	2.3	3.4	2.3	5.7	9.1	99.9
02-Aug	46.4	6.4	12.8	4.0	7.2	7.2	0.0	0.0	5.6	2.4	0.8	7.2	100.0
03-Aug	30.7	11.4	4.4	5.3	9.6	13.2	0.0	2.6	3.5	6.1	5.3	7.9	100.0
04-Aug	43.3	7.1	4.3	5.0	7.8	15.6	1.4	0.7	1.4	9.2	2.8	1.4	100.0
05-Aug	49.6	6.3	5.5	2.4	7.1	11.0	0.8	1.6	2.4	7.1	0.8	5.5	100.1

Table 15. Kasilof River south bank sonar counts by sector, 12 June through 5 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
12-Jun	23	33	82	117	99	56	72	84	99	190	314	387	1,556
13-Jun	26	46	68	77	62	61	137	128	138	338	490	419	1,990
14-Jun	15	56	53	82	79	88	123	157	143	370	527	599	2,292
15-Jun	16	26	37	79	46	68	90	98	95	135	182	283	1,155
16-Jun	31	40	99	170	85	77	120	97	95	176	272	258	1,520
17-Jun	40	34	89	108	68	54	88	78	54	81	169	137	1,000
18-Jun	39	59	207	205	99	66	122	99	83	204	335	263	1,781
19-Jun	34	52	92	89	50	32	80	92	81	185	248	284	1,319
20-Jun	29	54	119	114	38	31	78	70	71	148	301	317	1,370
21-Jun	36	63	151	117	48	42	87	96	73	145	267	265	1,390
22-Jun	31	62	120	99	39	40	69	74	59	120	226	207	1,146
23-Jun	54	110	210	186	50	59	98	89	73	139	195	169	1,432
24-Jun	114	298	529	385	81	109	167	116	145	306	457	452	3,159
25-Jun	265	650	823	392	92	104	231	189	168	356	526	489	4,285
26-Jun	596	1,214	1,100	402	133	108	182	131	105	206	278	255	4,710
27-Jun	810	760	950	455	113	81	181	116	122	232	290	321	4,431
28-Jun	498	368	558	245	76	70	108	109	75	123	181	186	2,597
29-Jun	140	131	231	121	60	53	61	61	52	83	138	169	1,300
30-Jun	957	400	475	256	128	106	157	122	105	101	175	223	3,205
01-Jul	661	611	651	343	113	99	130	117	110	117	197	184	3,333
02-Jul	160	909	1,052	776	392	178	132	164	129	253	115	170	4,430
03-Jul	12	78	138	102	37	25	25	59	53	295	82	85	991
04-Jul	24	111	250	253	76	42	41	62	83	121	179	113	1,355
05-Jul	32	270	371	333	118	50	65	94	88	237	234	185	2,077
06-Jul	14	77	108	126	59	24	23	37	46	39	51	68	672
07-Jul	90	852	778	593	156	102	100	146	174	138	176	213	3,518
08-Jul	310	1,220	982	706	481	305	182	210	139	151	170	197	5,053
09-Jul	56	65	72	75	30	18	15	26	43	56	89	100	645
10-Jul	19	14	20	26	6	5	7	10	23	26	43	40	239
11-Jul	63	53	78	59	20	10	6	19	31	50	51	103	543
12-Jul	56	74	68	26	12	10	8	12	22	33	51	83	455
13-Jul	2,961	4,429	2,315	901	246	107	98	105	145	172	183	262	11,924
14-Jul	550	460	404	403	223	146	50	45	77	78	96	129	2,661
15-Jul	1,274	782	620	472	210	87	54	61	72	86	127	226	4,071
16-Jul	1,593	868	700	429	136	32	11	19	31	48	44	124	4,035
17-Jul	279	88	114	88	31	16	10	16	29	45	50	57	823
18-Jul	363	90	67	106	41	22	15	36	38	50	40	97	965
19-Jul	258	100	101	87	26	16	13	31	29	47	71	63	842
20-Jul	521	109	131	50	32	5	6	9	16	14	62	37	992
21-Jul	361	74	75	35	21	5	5	3	1	2	15	40	637
22-Jul	248	116	62	45	28	14	7	8	9	4	12	62	615
23-Jul	1,190	558	248	117	44	13	21	7	7	13	28	25	2,271
24-Jul	415	414	354	170	26	12	12	11	5	24	45	26	1,514
25-Jul	413	579	536	154	19	17	7	16	4	29	15	42	1,831
26-Jul	194	375	321	104	29	11	18	58	5	26	47	88	1,276
27-Jul	118	308	197	103	53	17	10	20	12	18	50	70	976
28-Jul	478	864	288	96	22	17	22	21	19	41	54	93	2,015
29-Jul	306	502	251	65	33	14	17	21	33	19	28	60	1,349
30-Jul	271	330	212	100	38	23	8	15	21	28	46	40	1,132
31-Jul	123	125	119	38	13	10	7	5	12	12	14	20	498
01-Aug	316	191	66	26	5	3	8	0	7	14	21	10	667
02-Aug	608	270	92	22	7	6	8	15	2	4	5	16	1,055
03-Aug	298	126	52	20	13	6	1	11	5	15	16	20	583
04-Aug	176	146	62	34	11	8	11	4	8	5	14	23	502
05-Aug	181	132	41	29	10	5	1	1	7	6	5	17	435
Total	18,746	20,826	17,989	10,811	4,263	2,785	3,405	3,500	3,371	5,954	8,097	8,871	108,618

Table 16. Kasilof River south bank sonar counts by sector, 12 June through 5 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
12-Jun	1.5	2.1	5.3	7.5	6.4	3.6	4.6	5.4	6.4	12.2	20.2	24.9	100.1
13-Jun	1.3	2.3	3.4	3.9	3.1	3.1	6.9	6.4	6.9	17.0	24.6	21.1	100.0
14-Jun	0.7	2.4	2.3	3.6	3.4	3.8	5.4	6.8	6.2	16.1	23.0	26.1	99.8
15-Jun	1.4	2.3	3.2	6.8	4.0	5.9	7.8	8.5	8.2	11.7	15.8	24.5	100.1
16-Jun	2.0	2.6	6.5	11.2	5.6	5.1	7.9	6.4	6.3	11.6	17.9	17.0	100.1
17-Jun	4.0	3.4	8.9	10.8	6.8	5.4	8.8	7.8	5.4	8.1	16.9	13.7	100.0
18-Jun	2.2	3.3	11.6	11.5	5.6	3.7	6.9	5.6	4.7	11.5	18.8	14.8	100.2
19-Jun	2.6	3.9	7.0	6.7	3.8	2.4	6.1	7.0	6.1	14.0	18.8	21.5	99.9
20-Jun	2.1	3.9	8.7	8.3	2.8	2.3	5.7	5.1	5.2	10.8	22.0	23.1	100.0
21-Jun	2.6	4.5	10.9	8.4	3.5	3.0	6.3	6.9	5.3	10.4	19.2	19.1	100.1
22-Jun	2.7	5.4	10.5	8.6	3.4	3.5	6.0	6.5	5.1	10.5	19.7	18.1	100.0
23-Jun	3.8	7.7	14.7	13.0	3.5	4.1	6.8	6.2	5.1	9.7	13.6	11.8	100.0
24-Jun	3.6	9.4	16.7	12.2	2.6	3.5	5.3	3.7	4.6	9.7	14.5	14.3	100.1
25-Jun	6.2	15.2	19.2	9.1	2.1	2.4	5.4	4.4	3.9	8.3	12.3	11.4	99.9
26-Jun	12.7	25.8	23.4	8.5	2.8	2.3	3.9	2.8	2.2	4.4	5.9	5.4	100.1
27-Jun	18.3	17.2	21.4	10.3	2.6	1.8	4.1	2.6	2.8	5.2	6.5	7.2	100.0
28-Jun	19.2	14.2	21.5	9.4	2.9	2.7	4.2	4.2	2.9	4.7	7.0	7.2	100.1
29-Jun	10.8	10.1	17.8	9.3	4.6	4.1	4.7	4.7	4.0	6.4	10.6	13.0	100.1
30-Jun	29.9	12.5	14.8	8.0	4.0	3.3	4.9	3.8	3.3	3.2	5.5	7.0	100.2
01-Jul	19.8	18.3	19.5	10.3	3.4	3.0	3.9	3.5	3.3	3.5	5.9	5.5	99.9
02-Jul	3.6	20.5	23.7	17.5	8.8	4.0	3.0	3.7	2.9	5.7	2.6	3.8	99.8
03-Jul	1.2	7.9	13.9	10.3	3.7	2.5	2.5	6.0	5.3	29.8	8.3	8.6	100.0
04-Jul	1.8	8.2	18.5	18.7	5.6	3.1	3.0	4.6	6.1	8.9	13.2	8.3	100.0
05-Jul	1.5	13.0	17.9	16.0	5.7	2.4	3.1	4.5	4.2	11.4	11.3	8.9	99.9
06-Jul	2.1	11.5	16.1	18.8	8.8	3.6	3.4	5.5	6.8	5.8	7.6	10.1	100.1
07-Jul	2.6	24.2	22.1	16.9	4.4	2.9	2.8	4.2	4.9	3.9	5.0	6.1	100.0
08-Jul	6.1	24.1	19.4	14.0	9.5	6.0	3.6	4.2	2.8	3.0	3.4	3.9	100.0
09-Jul	8.7	10.1	11.2	11.6	4.7	2.8	2.3	4.0	6.7	8.7	13.8	15.5	100.1
10-Jul	7.9	5.9	8.4	10.9	2.5	2.1	2.9	4.2	9.6	10.9	18.0	16.7	100.0
11-Jul	11.6	9.8	14.4	10.9	3.7	1.8	1.1	3.5	5.7	9.2	9.4	19.0	100.1
12-Jul	12.3	16.3	14.9	5.7	2.6	2.2	1.8	2.6	4.8	7.3	11.2	18.2	99.9
13-Jul	24.8	37.1	19.4	7.6	2.1	0.9	0.8	0.9	1.2	1.4	1.5	2.2	99.9
14-Jul	20.7	17.3	15.2	15.1	8.4	5.5	1.9	1.7	2.9	2.9	3.6	4.8	100.0
15-Jul	31.3	19.2	15.2	11.6	5.2	2.1	1.3	1.5	1.8	2.1	3.1	5.6	100.0
16-Jul	39.5	21.5	17.3	10.6	3.4	0.8	0.3	0.5	0.8	1.2	1.1	3.1	100.1
17-Jul	33.9	10.7	13.9	10.7	3.8	1.9	1.2	1.9	3.5	5.5	6.1	6.9	100.0
18-Jul	37.6	9.3	6.9	11.0	4.2	2.3	1.6	3.7	3.9	5.2	4.1	10.1	99.9
19-Jul	30.6	11.9	12.0	10.3	3.1	1.9	1.5	3.7	3.4	5.6	8.4	7.5	99.9
20-Jul	52.5	11.0	13.2	5.0	3.2	0.5	0.6	0.9	1.6	1.4	6.3	3.7	99.9
21-Jul	56.7	11.6	11.8	5.5	3.3	0.8	0.8	0.5	0.2	0.3	2.4	6.3	100.2
22-Jul	40.3	18.9	10.1	7.3	4.6	2.3	1.1	1.3	1.5	0.7	2.0	10.1	100.2
23-Jul	52.4	24.6	10.9	5.2	1.9	0.6	0.9	0.3	0.3	0.6	1.2	1.1	100.0
24-Jul	27.4	27.3	23.4	11.2	1.7	0.8	0.8	0.7	0.3	1.6	3.0	1.7	99.9
25-Jul	22.6	31.6	29.3	8.4	1.0	0.9	0.4	0.9	0.2	1.6	0.8	2.3	100.0
26-Jul	15.2	29.4	25.2	8.2	2.3	0.9	1.4	4.5	0.4	2.0	3.7	6.9	100.1
27-Jul	12.1	31.6	20.2	10.6	5.4	1.7	1.0	2.0	1.2	1.8	5.1	7.2	99.9
28-Jul	23.7	42.9	14.3	4.8	1.1	0.8	1.1	1.0	0.9	2.0	2.7	4.6	99.9
29-Jul	22.7	37.2	18.6	4.8	2.4	1.0	1.3	1.6	2.4	1.4	2.1	4.4	99.9
30-Jul	23.9	29.2	18.7	8.8	3.4	2.0	0.7	1.3	1.9	2.5	4.1	3.5	100.0
31-Jul	24.7	25.1	23.9	7.6	2.6	2.0	1.4	1.0	2.4	2.4	2.8	4.0	99.9
01-Aug	47.4	28.6	9.9	3.9	0.7	0.4	1.2	0.0	1.0	2.1	3.1	1.5	99.8
02-Aug	57.6	25.6	8.7	2.1	0.7	0.6	0.8	1.4	0.2	0.4	0.5	1.5	100.1
03-Aug	51.1	21.6	8.9	3.4	2.2	1.0	0.2	1.9	0.9	2.6	2.7	3.4	99.9
04-Aug	35.1	29.1	12.4	6.8	2.2	1.6	2.2	0.8	1.6	1.0	2.8	4.6	100.2
05-Aug	41.6	30.3	9.4	6.7	2.3	1.1	0.2	0.2	1.6	1.4	1.1	3.9	99.8

Table 17. Kasilof River north bank sonar counts by hour, 12 June through 5 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12-Jun	6	7	24	5	7	4	12	7	4	2	0	1	6	2	4	2	7	3	11	2	3	4	7	6	136
13-Jun	15	20	18	12	6	10	5	1	8	3	3	9	11	2	28	22	15	21	8	7	9	15	10	11	269
14-Jun	14	18	13	15	28	31	9	8	2	0	4	2	7	16	3	4	3	13	3	9	6	15	9	7	239
15-Jun	11	10	15	16	5	7	6	5	5	5	8	3	4	4	8	8	10	9	11	11	9	11	12	8	201
16-Jun	15	18	16	16	17	7	13	8	5	7	14	9	10	8	11	9	9	16	13	13	11	20	16	23	304
17-Jun	14	16	21	16	15	18	19	14	18	5	15	16	11	8	12	7	17	10	14	21	23	20	23	29	382
18-Jun	15	26	41	31	16	19	28	15	18	9	9	23	23	18	30	30	23	34	35	28	30	42	44	30	617
19-Jun	23	22	24	28	40	49	58	32	30	30	25	24	38	28	35	19	19	14	41	16	20	22	25	54	716
20-Jun	44	41	45	47	53	53	48	52	58	32	27	27	25	21	23	23	21	13	32	47	25	29	28	27	841
21-Jun	9	25	38	33	22	52	46	18	38	20	30	37	29	34	29	32	28	18	24	19	26	17	17	23	664
22-Jun	17	19	17	24	19	20	29	19	20	20	18	21	17	16	19	18	17	24	13	27	36	32	34	16	512
23-Jun	16	10	7	11	7	4	7	10	22	6	5	10	23	12	7	2	5	11	15	8	11	20	10	5	244
24-Jun	11	12	19	16	6	7	3	6	24	10	8	3	31	28	33	26	36	31	49	65	45	69	47	29	614
25-Jun	45	38	29	37	35	30	31	45	48	48	34	29	18	58	66	61	66	74	69	112	124	108	67	65	1,337
26-Jun	64	53	64	61	31	30	26	23	27	24	77	90	67	62	155	71	72	46	57	85	63	42	37	41	1,368
27-Jun	41	50	60	42	18	37	33	26	30	36	45	59	62	40	34	67	71	48	36	37	39	46	15	32	1,004
28-Jun	30	36	51	40	36	46	13	34	38	25	51	50	67	61	87	44	59	49	53	33	34	42	15	18	1,012
29-Jun	32	19	18	12	20	12	15	13	11	7	14	21	21	25	56	43	36	28	35	31	26	29	21	37	582
30-Jun	50	64	108	41	36	22	23	26	12	26	16	44	47	28	41	49	56	39	36	27	33	29	20	17	890
01-Jul	18	48	86	100	26	40	24	10	21	28	20	27	28	60	44	48	61	26	17	75	46	27	9	24	913
02-Jul	19	29	22	40	39	2	23	9	22	21	17	14	32	21	39	40	34	42	38	30	29	32	8	9	611
03-Jul	15	12	15	18	25	14	16	17	3	15	14	9	12	31	5	9	11	40	21	24	19	23	20	17	405
04-Jul	21	26	20	25	24	30	12	13	15	10	10	20	33	22	36	44	30	22	43	23	31	16	26	12	564
05-Jul	22	42	33	28	23	37	15	17	10	27	38	33	14	21	30	18	49	29	18	35	30	24	19	13	625
06-Jul	20	23	17	14	16	17	21	18	10	21	9	20	20	16	23	18	17	31	23	43	24	37	50	31	539
07-Jul	27	23	32	35	18	16	26	21	25	19	20	39	27	44	30	41	42	18	31	51	60	52	43	52	792
08-Jul	54	70	48	42	21	25	24	20	31	49	23	26	39	22	28	46	60	30	109	86	38	90	50	65	1,096
09-Jul	61	49	52	42	20	29	35	27	59	17	11	61	68	42	65	42	44	43	42	44	49	49	43	26	1,020
10-Jul	47	36	27	14	30	32	21	23	26	27	21	50	122	50	39	71	90	70	55	65	111	66	74	52	1,219
11-Jul	62	89	40	49	34	45	47	44	63	55	35	58	115	66	69	57	109	75	64	79	55	60	33	74	1,477
12-Jul	134	175	141	92	56	100	105	72	82	61	81	124	174	173	75	85	92	151	66	97	49	30	21	40	2,276
13-Jul	43	50	68	57	64	49	53	46	66	37	71	85	91	91	89	59	49	103	74	74	91	86	88	79	1,663
14-Jul	88	72	62	40	65	60	31	65	34	53	44	44	46	43	39	61	68	119	25	63	48	80	62	47	1,359
15-Jul	73	104	118	103	60	56	68	71	79	84	54	103	95	80	75	70	93	42	129	115	99	86	76	85	2,018
16-Jul	196	266	182	237	97	80	72	60	51	69	89	81	92	85	123	80	95	66	74	57	117	93	87	82	2,531
17-Jul	88	92	72	103	62	47	26	26	53	66	48	15	27	34	48	18	44	52	26	40	33	42	19	35	1,116
18-Jul	62	36	43	34	30	31	15	17	21	32	25	23	25	30	32	22	17	40	30	34	45	30	39	51	764
19-Jul	44	45	46	59	37	54	42	31	25	31	29	28	34	42	22	61	63	45	49	39	34	40	38	27	965
20-Jul	47	29	24	15	20	21	57	52	18	20	25	27	29	19	18	9	45	11	53	50	23	31	22	24	689
21-Jul	47	33	21	30	24	16	12	42	22	39	48	35	14	39	33	65	3	19	28	31	44	24	52	760	

-Continued-

19

Table 17. (p. 2 of 2)

Date	Counts by Hour																							Daily Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		24
22-Jul	21	25	15	13	13	29	13	28	39	24	31	21	33	43	20	27	18	18	25	30	27	25	28	31	597
23-Jul	22	28	37	25	20	14	26	33	9	39	27	44	39	40	38	40	30	48	40	63	30	41	46	26	805
24-Jul	43	36	30	33	9	9	31	4	5	16	11	35	23	77	19	47	24	23	49	61	33	47	34	46	745
25-Jul	30	17	29	25	34	22	31	36	36	32	46	30	20	23	19	13	29	20	80	12	22	19	20	17	662
26-Jul	20	17	16	23	22	13	18	9	17	17	17	32	20	32	15	19	22	24	20	35	20	20	24	18	490
27-Jul	21	16	10	7	16	15	19	14	37	12	11	12	16	15	11	23	26	24	26	14	46	15	14	19	439
28-Jul	24	24	5	13	10	40	36	8	9	23	24	18	19	14	21	13	21	21	17	18	17	22	12	19	448
29-Jul	10	11	7	23	15	19	26	22	10	17	34	6	18	14	15	15	13	16	12	7	52	5	17	24	408
30-Jul	29	22	22	29	38	28	34	21	22	13	15	10	12	12	18	19	20	17	5	22	26	25	20	491	
31-Jul	8	7	6	5	16	24	8	24	5	10	4	12	13	3	24	8	3	3	11	1	6	5	10	3	219
01-Aug	6	3	0	6	0	19	8	1	20	5	4	10	8	10	9	18	14	8	8	7	1	5	4	2	176
02-Aug	4	2	3	3	3	10	10	8	3	7	7	2	6	3	5	4	4	2	10	12	5	5	2	5	125
03-Aug	2	4	2	1	3	4	4	13	6	5	3	5	3	2	5	8	5	17	7	1	3	3	3	5	114
04-Aug	1	3	4	4	5	5	3	1	7	5	6	9	11	3	7	6	13	8	20	4	7	3	1	5	141
05-Aug	2	3	3	2	2	5	2	6	10	4	2	2	1	5	5	9	7	7	6	11	8	11	9	5	127
Total	1,904	2,073	1,989	1,896	1,419	1,521	1,445	1,299	1,398	1,335	1,379	1,673	1,930	1,787	1,889	1,753	2,013	1,836	1,928	2,051	1,955	1,924	1,580	1,644	41,321

Table 18. Kasilof River north bank sonar counts by hour, 12 June through 5 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12-Jun	4.4	5.1	17.6	3.7	5.1	2.9	8.8	5.1	2.9	1.5	0.0	0.7	4.4	1.5	2.9	1.5	5.1	2.2	8.1	1.5	2.2	2.9	5.1	4.4	99.6
13-Jun	5.6	7.4	6.7	4.5	2.2	3.7	1.9	0.4	3.0	1.1	1.1	3.3	4.1	0.7	10.4	8.2	5.6	7.8	3.0	2.6	3.3	5.6	3.7	4.1	100.0
14-Jun	5.9	7.5	5.4	6.3	11.7	13.0	3.8	3.3	0.8	0.0	1.7	0.8	2.9	6.7	1.3	1.7	1.3	5.4	1.3	3.8	2.5	6.3	3.8	2.9	100.1
15-Jun	5.5	5.0	7.5	8.0	2.5	3.5	3.0	2.5	2.5	2.5	4.0	1.5	2.0	2.0	4.0	4.0	5.0	4.5	5.5	5.5	4.5	5.5	6.0	4.0	100.5
16-Jun	4.9	5.9	5.3	5.3	5.6	2.3	4.3	2.6	1.6	2.3	4.6	3.0	3.3	2.6	3.6	3.0	3.0	5.3	4.3	4.3	3.6	6.6	5.3	7.6	100.2
17-Jun	3.7	4.2	5.5	4.2	3.9	4.7	5.0	3.7	4.7	1.3	3.9	4.2	2.9	2.1	3.1	1.8	4.5	2.6	3.7	5.5	6.0	5.2	6.0	7.6	100.0
18-Jun	2.4	4.2	6.6	5.0	2.6	3.1	4.5	2.4	2.9	1.5	1.5	3.7	3.7	2.9	4.9	4.9	3.7	5.5	5.7	4.5	4.9	6.8	7.1	4.9	99.9
19-Jun	3.2	3.1	3.4	3.9	5.6	6.8	8.1	4.5	4.2	4.2	3.5	3.4	5.3	3.9	4.9	2.7	2.7	2.0	5.7	2.2	2.8	3.1	3.5	7.5	100.2
20-Jun	5.2	4.9	5.4	5.6	6.3	6.3	5.7	6.2	6.9	3.8	3.2	3.2	3.0	2.5	2.7	2.7	2.5	1.5	3.8	5.6	3.0	3.4	3.3	3.2	99.9
21-Jun	1.4	3.8	5.7	5.0	3.3	7.8	6.9	2.7	5.7	3.0	4.5	5.6	4.4	5.1	4.4	4.8	4.2	2.7	3.6	2.9	3.9	2.6	2.6	3.5	100.1
22-Jun	3.3	3.7	3.3	4.7	3.7	3.9	5.7	3.7	3.9	3.9	3.5	4.1	3.3	3.1	3.7	3.5	3.3	4.7	2.5	5.3	7.0	6.3	6.6	3.1	99.8
23-Jun	6.6	4.1	2.9	4.5	2.9	1.6	2.9	4.1	9.0	2.5	2.0	4.1	9.4	4.9	2.9	0.8	2.0	4.5	6.1	3.3	4.5	8.2	4.1	2.0	99.9
24-Jun	1.8	2.0	3.1	2.6	1.0	1.1	0.5	1.0	3.9	1.6	1.3	0.5	5.0	4.6	5.4	4.2	5.9	5.0	8.0	10.6	7.3	11.2	7.7	4.7	100.0
25-Jun	3.4	2.8	2.2	2.8	2.6	2.2	2.3	3.4	3.6	3.6	2.5	2.2	1.3	4.3	4.9	4.6	4.9	5.5	5.2	8.4	9.3	8.1	5.0	4.9	100.0
26-Jun	4.7	3.9	4.7	4.5	2.3	2.2	1.9	1.7	2.0	1.8	5.6	6.6	4.9	4.5	11.3	5.2	5.3	3.4	4.2	6.2	4.6	3.1	2.7	3.0	100.3
27-Jun	4.1	5.0	6.0	4.2	1.8	3.7	3.3	2.6	3.0	3.6	4.5	5.9	6.2	4.0	3.4	6.7	7.1	4.8	3.6	3.7	3.9	4.6	1.5	3.2	100.4
28-Jun	3.0	3.6	5.0	4.0	3.6	4.5	1.3	3.4	3.8	2.5	5.0	4.9	6.6	6.0	8.6	4.3	5.8	4.8	5.2	3.3	3.4	4.2	1.5	1.8	100.1
29-Jun	5.5	3.3	3.1	2.1	3.4	2.1	2.6	2.2	1.9	1.2	2.4	3.6	3.6	4.3	9.6	7.4	6.2	4.8	6.0	5.3	4.5	5.0	3.6	6.4	100.1
30-Jun	5.6	7.2	12.1	4.6	4.0	2.5	2.6	2.9	1.3	2.9	1.8	4.9	5.3	3.1	4.6	5.5	6.3	4.4	4.0	3.0	3.7	3.3	2.2	1.9	99.7
01-Jul	2.0	5.3	9.4	11.0	2.8	4.4	2.6	1.1	2.3	3.1	2.2	3.0	3.1	6.6	4.8	5.3	6.7	2.8	1.9	8.2	5.0	3.0	1.0	2.6	100.2
02-Jul	3.1	4.7	3.6	6.5	6.4	0.3	3.8	1.5	3.6	3.4	2.8	2.3	5.2	3.4	6.4	6.5	5.6	6.9	6.2	4.9	4.7	5.2	1.3	1.5	99.8
03-Jul	3.7	3.0	3.7	4.4	6.2	3.5	4.0	4.2	0.7	3.7	3.5	2.2	3.0	7.7	1.2	2.2	2.7	9.9	5.2	5.9	4.7	5.7	4.9	4.2	100.1
04-Jul	3.7	4.6	3.5	4.4	4.3	5.3	2.1	2.3	2.7	1.8	1.8	3.5	5.9	3.9	6.4	7.8	5.3	3.9	7.6	4.1	5.5	2.8	4.6	2.1	99.9
05-Jul	3.5	6.7	5.3	4.5	3.7	5.9	2.4	2.7	1.6	4.3	6.1	5.3	2.2	3.4	4.8	2.9	7.8	4.6	2.9	5.6	4.8	3.8	3.0	2.1	99.9
06-Jul	3.7	4.3	3.2	2.6	3.0	3.2	3.9	3.3	1.9	3.9	1.7	3.7	3.7	3.0	4.3	3.3	3.2	5.8	4.3	8.0	4.5	6.9	9.3	5.8	100.5
07-Jul	3.4	2.9	4.0	4.4	2.3	2.0	3.3	2.7	3.2	2.4	2.5	4.9	3.4	5.6	3.8	5.2	5.3	2.3	3.9	6.4	7.6	6.6	5.4	6.6	100.1
08-Jul	4.9	6.4	4.4	3.8	1.9	2.3	2.2	1.8	2.8	4.5	2.1	2.4	3.6	2.0	2.6	4.2	5.5	2.7	9.9	7.8	3.5	8.2	4.6	5.9	100.0
09-Jul	6.0	4.8	5.1	4.1	2.0	2.8	3.4	2.6	5.8	1.7	1.1	6.0	6.7	4.1	6.4	4.1	4.3	4.2	4.1	4.3	4.8	4.8	4.2	2.5	99.9
10-Jul	3.9	3.0	2.2	1.1	2.5	2.6	1.7	1.9	2.1	2.2	1.7	4.1	10.0	4.1	3.2	5.8	7.4	5.7	4.5	5.3	9.1	5.4	6.1	4.3	99.9
11-Jul	4.2	6.0	2.7	3.3	2.3	3.0	3.2	3.0	4.3	3.7	2.4	3.9	7.8	4.5	4.7	3.9	7.4	5.1	4.3	5.3	3.7	4.1	2.2	5.0	100.0
12-Jul	5.9	7.7	6.2	4.0	2.5	4.4	4.6	3.2	3.6	2.7	3.6	5.4	7.6	7.6	3.3	3.7	4.0	6.6	2.9	4.3	2.2	1.3	0.9	1.8	100.0
13-Jul	2.6	3.0	4.1	3.4	3.8	2.9	3.2	2.8	4.0	2.2	4.3	5.1	5.5	5.5	5.4	3.5	2.9	6.2	4.4	4.4	5.5	5.2	5.3	4.8	100.0
14-Jul	6.5	5.3	4.6	2.9	4.8	4.4	2.3	4.8	2.5	3.9	3.2	3.2	3.4	3.2	2.9	4.5	5.0	8.8	1.8	4.6	3.5	5.9	4.6	3.5	100.1
15-Jul	3.6	5.2	5.8	5.1	3.0	2.8	3.4	3.5	3.9	4.2	2.7	5.1	4.7	4.0	3.7	3.5	4.6	2.1	6.4	5.7	4.9	4.3	3.8	4.2	100.2
16-Jul	7.7	10.5	7.2	9.4	3.8	3.2	2.8	2.4	2.0	2.7	3.5	3.2	3.6	3.4	4.9	3.2	3.8	2.6	2.9	2.3	4.6	3.7	3.4	3.2	100.0
17-Jul	7.9	8.2	6.5	9.2	5.6	4.2	2.3	2.3	4.7	5.9	4.3	1.3	2.4	3.0	4.3	1.6	3.9	4.7	2.3	3.6	3.0	3.8	1.7	3.1	99.8
18-Jul	8.1	4.7	5.6	4.5	3.9	4.1	2.0	2.2	2.7	4.2	3.3	3.0	3.3	3.9	4.2	2.9	2.2	5.2	3.9	4.5	5.9	3.9	5.1	6.7	100.0
19-Jul	4.6	4.7	4.8	6.1	3.8	5.6	4.4	3.2	2.6	3.2	3.0	2.9	3.5	4.4	2.3	6.3	6.5	4.7	5.1	4.0	3.5	4.1	3.9	2.8	100.0
20-Jul	6.8	4.2	3.5	2.2	2.9	3.0	8.3	7.5	2.6	2.9	3.6	3.9	4.2	2.8	2.6	1.3	6.5	1.6	7.7	7.3	3.3	4.5	3.2	3.5	99.9
21-Jul	6.2	4.3	2.8	3.9	3.2	2.1	1.6	5.5	2.9	5.1	5.1	6.3	4.6	1.8	5.1	4.3	8.6	0.4	2.5	3.7	4.1	5.8	3.2	6.8	99.9

-Continued-

Table 18. (p. 2 of 2)

Percent of Counts by Hour

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Total
22-Jul	3.5	4.2	2.5	2.2	2.2	4.9	2.2	4.7	6.5	4.0	5.2	3.5	5.5	7.2	3.4	4.5	3.0	3.0	4.2	5.0	4.5	4.2	4.7	5.2	100.0
23-Jul	2.7	3.5	4.6	3.1	2.5	1.7	3.2	4.1	1.1	4.8	3.4	5.5	4.8	5.0	4.7	5.0	3.7	6.0	5.0	7.8	3.7	5.1	5.7	3.2	99.9
24-Jul	5.8	4.8	4.0	4.4	1.2	1.2	4.2	0.5	0.7	2.1	1.5	4.7	3.1	10.3	2.6	6.3	3.2	3.1	6.6	8.2	4.4	6.3	4.6	6.2	100.0
25-Jul	4.5	2.6	4.4	3.8	5.1	3.3	4.7	5.4	5.4	4.8	6.9	4.5	3.0	3.5	2.9	2.0	4.4	3.0	12.1	1.8	3.3	2.9	3.0	2.6	99.9
26-Jul	4.1	3.5	3.3	4.7	4.5	2.7	3.7	1.8	3.5	3.5	3.5	6.5	4.1	6.5	3.1	3.9	4.5	4.9	4.1	7.1	4.1	4.1	4.9	3.7	100.3
27-Jul	4.8	3.6	2.3	1.6	3.6	3.4	4.3	3.2	8.4	2.7	2.5	2.7	3.6	3.4	2.5	5.2	5.9	5.5	5.9	3.2	10.5	3.4	3.2	4.3	99.7
28-Jul	5.4	5.4	1.1	2.9	2.2	8.9	8.0	1.8	2.0	5.1	5.4	4.0	4.2	3.1	4.7	2.9	4.7	4.7	3.8	4.0	3.8	4.9	2.7	4.2	99.9
29-Jul	2.5	2.7	1.7	5.6	3.7	4.7	6.4	5.4	2.5	4.2	8.3	1.5	4.4	3.4	3.7	3.7	3.2	3.9	2.9	1.7	12.7	1.2	4.2	5.9	100.1
30-Jul	5.9	4.5	4.5	5.9	7.7	5.7	6.9	4.3	4.5	2.6	3.1	2.0	2.4	2.4	2.4	3.7	3.9	4.1	3.5	1.0	4.5	5.3	5.1	4.1	100.0
31-Jul	3.7	3.2	2.7	2.3	7.3	11.0	3.7	11.0	2.3	4.6	1.8	5.5	5.9	1.4	11.0	3.7	1.4	1.4	5.0	0.5	2.7	2.3	4.6	1.4	100.4
01-Aug	3.4	1.7	0.0	3.4	0.0	10.8	4.5	0.6	11.4	2.8	2.3	5.7	4.5	5.7	5.1	10.2	8.0	4.5	4.5	4.0	0.6	2.8	2.3	1.1	99.9
02-Aug	3.2	1.6	2.4	2.4	2.4	8.0	8.0	6.4	2.4	5.6	5.6	1.6	4.8	2.4	4.0	3.2	3.2	1.6	8.0	9.6	4.0	4.0	1.6	4.0	100.0
03-Aug	1.8	3.5	1.8	0.9	2.6	3.5	3.5	11.4	5.3	4.4	2.6	4.4	2.6	1.8	4.4	7.0	4.4	14.9	6.1	0.9	2.6	2.6	2.6	4.4	100.0
04-Aug	0.7	2.1	2.8	2.8	3.5	3.5	2.1	0.7	5.0	3.5	4.3	6.4	7.8	2.1	5.0	4.3	9.2	5.7	14.2	2.8	5.0	2.1	0.7	3.5	99.8
05-Aug	1.6	2.4	2.4	1.6	1.6	3.9	1.6	4.7	7.9	3.1	1.6	1.6	0.8	3.9	3.9	7.1	5.5	5.5	4.7	8.7	6.3	8.7	7.1	3.9	100.1

22

Table 19. Kasilof River south bank sonar counts by hour, 12 June through 5 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12-Jun	75	105	92	128	42	52	38	26	22	17	25	77	48	22	115	102	60	79	99	57	45	87	78	65	1,556
13-Jun	155	181	164	125	82	65	60	16	15	78	25	22	60	57	56	40	84	61	54	158	92	139	139	62	1,990
14-Jun	65	185	196	185	99	153	54	12	20	77	125	80	77	131	71	91	75	74	95	55	130	77	83	82	2,292
15-Jun	100	139	136	138	97	56	39	22	11	4	10	10	27	18	29	33	56	37	23	26	25	27	34	58	1,155
16-Jun	125	170	221	154	82	32	21	4	2	10	25	22	40	55	55	54	48	63	78	48	48	48	67	48	1,520
17-Jun	45	67	110	126	82	59	13	19	7	20	26	32	51	42	32	10	16	50	24	23	40	24	39	43	1,000
18-Jun	91	98	171	204	184	123	69	39	69	55	59	49	42	53	52	64	35	69	69	53	32	42	22	37	1,781
19-Jun	102	78	149	121	97	96	55	27	46	37	29	60	20	39	29	37	17	22	45	54	35	40	41	43	1,319
20-Jun	80	100	91	64	131	161	70	50	74	42	39	19	35	18	26	35	47	24	58	50	26	40	41	49	1,370
21-Jun	88	166	98	98	80	93	98	45	37	47	82	50	34	56	52	51	24	32	16	26	27	40	39	11	1,390
22-Jun	41	64	37	40	37	49	81	100	61	31	79	75	74	37	34	52	22	9	24	42	66	46	27	18	1,146
23-Jun	32	53	57	40	18	30	39	96	106	37	55	67	81	82	72	47	54	32	34	60	85	118	52	85	1,432
24-Jun	124	148	161	158	145	98	73	134	306	210	93	147	151	154	95	86	61	52	32	75	108	258	124	166	3,159
25-Jun	274	238	211	176	144	159	146	212	291	536	231	111	153	233	247	118	117	58	46	57	46	115	198	168	4,285
26-Jun	180	246	183	109	85	77	45	28	30	53	326	326	143	216	522	419	210	183	180	213	211	218	377	130	4,710
27-Jun	112	170	263	218	117	92	115	103	109	132	194	229	382	282	199	225	169	109	140	71	158	177	305	360	4,431
28-Jun	179	131	125	125	108	101	67	86	111	113	85	129	174	259	187	78	85	83	77	77	59	64	56	38	2,597
29-Jun	51	61	40	28	22	32	42	34	26	22	39	33	52	58	107	54	31	43	68	107	104	68	87	91	1,300
30-Jun	168	243	211	83	119	120	137	99	83	81	100	119	119	125	139	331	265	139	56	65	123	92	103	85	3,205
01-Jul	83	111	172	242	199	153	182	87	125	115	93	138	60	53	41	87	219	223	49	85	187	227	237	165	3,333
02-Jul	183	181	200	347	565	369	238	278	340	215	151	101	54	77	186	162	159	229	101	82	36	54	50	72	4,430
03-Jul	93	100	75	73	84	69	37	26	32	28	11	13	27	24	11	25	26	35	23	11	38	54	41	35	991
04-Jul	19	64	79	65	94	160	64	39	29	55	45	29	27	38	40	33	23	37	107	38	23	51	96	100	1,355
05-Jul	103	111	108	90	108	145	282	108	76	107	116	99	58	36	34	22	24	31	61	129	70	48	39	72	2,077
06-Jul	30	28	36	19	24	20	18	26	15	10	22	37	13	17	8	13	20	18	24	15	47	37	65	110	672
07-Jul	112	78	84	78	78	100	106	408	298	91	76	108	153	86	73	83	71	126	128	226	356	240	96	263	3,518
08-Jul	238	169	120	121	275	311	376	536	800	318	139	97	140	210	75	158	173	148	131	42	141	210	80	45	5,053
09-Jul	65	72	75	65	44	28	27	18	24	18	24	20	15	22	30	16	14	12	11	8	8	8	12	9	645
10-Jul	8	5	15	5	5	3	11	6	9	8	7	14	9	10	8	10	18	6	4	7	15	1	20	35	239
11-Jul	21	33	42	36	44	24	21	15	20	36	16	21	17	23	20	13	15	8	22	6	8	11	19	52	543
12-Jul	50	45	40	29	26	35	25	18	13	10	8	18	3	16	17	19	11	16	8	9	5	8	7	19	455
13-Jul	30	57	32	50	96	106	152	260	284	243	158	177	165	265	293	518	433	663	1,558	1,552	1,464	1,355	1,208	805	11,924
14-Jul	108	108	108	108	108	108	108	166	174	99	174	107	246	122	76	138	80	56	47	34	94	142	64	86	2,661
15-Jul	120	164	223	203	229	236	229	164	170	168	108	151	113	76	19	68	178	135	43	183	261	177	263	390	4,071
16-Jul	292	196	91	114	271	186	399	337	300	293	220	60	58	45	53	74	225	268	151	46	43	66	122	125	4,035
17-Jul	43	36	41	31	68	44	20	25	33	41	30	37	29	30	32	31	28	45	37	25	28	8	43	38	823
18-Jul	20	24	31	34	39	69	36	29	39	79	43	44	28	48	34	59	43	30	80	41	28	23	29	35	965
19-Jul	52	50	43	18	27	58	86	43	40	26	38	28	51	17	12	36	20	13	18	28	29	34	34	41	842
20-Jul	23	33	41	24	49	57	65	85	48	50	76	57	41	40	8	11	14	19	21	62	61	39	28	40	992
21-Jul	36	22	7	14	16	12	24	64	55	21	37	49	34	57	15	15	11	18	8	15	38	20	22	27	637

-Continued-

Table 19. (p. 2 of 2)

24

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
22-Jul	15	16	18	8	10	26	24	21	33	24	14	37	11	23	20	15	12	13	20	26	55	52	51	71	615
23-Jul	42	57	45	27	34	54	28	28	81	288	120	127	130	49	96	75	97	129	62	95	171	190	180	66	2,271
24-Jul	52	30	33	21	20	40	28	39	48	53	85	130	41	66	43	64	48	67	77	63	75	97	196	98	1,514
25-Jul	27	47	27	25	31	49	25	12	42	58	91	141	110	73	97	49	103	99	134	156	151	149	88	47	1,831
26-Jul	41	55	39	38	54	93	54	41	63	58	83	96	57	49	50	23	42	68	44	22	38	39	54	75	1,276
27-Jul	48	57	38	19	33	27	59	32	42	46	30	16	20	20	38	14	23	51	37	53	57	58	86	72	976
28-Jul	75	55	62	39	69	78	118	81	72	46	33	43	55	55	46	101	181	74	86	177	174	159	72	64	2,015
29-Jul	86	68	65	76	58	73	94	51	44	71	42	38	42	21	12	57	59	101	39	19	70	82	29	52	1,349
30-Jul	33	32	30	45	46	43	69	62	66	45	34	24	27	25	27	57	41	116	83	37	58	44	48	40	1,132
31-Jul	27	29	28	25	9	29	24	22	18	26	19	12	16	15	22	33	18	12	12	17	9	34	19	23	498
01-Aug	16	21	20	18	17	14	32	16	21	17	24	39	24	17	17	20	69	24	74	62	21	17	27	40	667
02-Aug	39	31	35	23	20	32	46	81	43	57	37	42	26	35	34	43	65	49	50	68	78	66	32	23	1,055
03-Aug	20	15	12	9	8	15	8	20	25	21	35	33	31	39	27	44	39	13	44	39	37	31	5	13	583
04-Aug	21	17	13	9	12	10	11	31	21	51	13	33	20	17	32	20	14	26	18	24	40	14	20	15	502
05-Aug	10	5	15	6	7	10	5	12	15	27	19	17	19	19	10	31	21	12	19	29	34	37	35	21	435
Total	4,369	4,867	4,862	4,478	4,653	4,540	4,400	4,447	4,993	4,531	3,929	3,902	3,746	3,786	3,790	4,180	4,130	4,227	4,668	4,868	5,529	5,624	5,452	4,947	108,618

Table 20. Kasilof River south bank sonar counts by hour, 12 June through 5 August 1993. Counts expressed as percent of daily total

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
12-Jun	4.8	6.7	5.9	8.2	2.7	3.3	2.4	1.7	1.4	1.1	1.6	4.9	3.1	1.4	7.4	6.6	3.9	5.1	6.4	3.7	2.9	5.6	5.0	4.2	100.0
13-Jun	7.8	9.1	8.2	6.3	4.1	3.3	3.0	0.8	0.8	3.9	1.3	1.1	3.0	2.9	2.8	2.0	4.2	3.1	2.7	7.9	4.6	7.0	7.0	3.1	100.0
14-Jun	2.8	8.1	8.6	8.1	4.3	6.7	2.4	0.5	0.9	3.4	5.5	3.5	3.4	5.7	3.1	4.0	3.3	3.2	4.1	2.4	5.7	3.4	3.6	3.6	100.3
15-Jun	8.7	12.0	11.8	11.9	8.4	4.8	3.4	1.9	1.0	0.3	0.9	0.9	2.3	1.6	2.5	2.9	4.8	3.2	2.0	2.3	2.2	2.3	2.9	5.0	100.0
16-Jun	8.2	11.2	14.5	10.1	5.4	2.1	1.4	0.3	0.1	0.7	1.6	1.4	2.6	3.6	3.6	3.6	3.2	4.1	5.1	3.2	3.2	3.2	4.4	3.2	100.0
17-Jun	4.5	6.7	11.0	12.6	8.2	5.9	1.3	1.9	0.7	2.0	2.6	3.2	5.1	4.2	3.2	1.0	1.6	5.0	2.4	2.3	4.0	2.4	3.9	4.3	100.0
18-Jun	5.1	5.5	9.6	11.5	10.3	6.9	3.9	2.2	3.9	3.1	3.3	2.8	2.4	3.0	2.9	3.6	2.0	3.9	3.9	3.0	1.8	2.4	1.2	2.1	100.3
19-Jun	7.7	5.9	11.3	9.2	7.4	7.3	4.2	2.0	3.5	2.8	2.2	4.5	1.5	3.0	2.2	2.8	1.3	1.7	3.4	4.1	2.7	3.0	3.1	3.3	100.1
20-Jun	5.8	7.3	6.6	4.7	9.6	11.8	5.1	3.6	5.4	3.1	2.8	1.4	2.6	1.3	1.9	2.6	3.4	1.8	4.2	3.6	1.9	2.9	3.0	3.6	100.0
21-Jun	6.3	11.9	7.1	7.1	5.8	6.7	7.1	3.2	2.7	3.4	5.9	3.6	2.4	4.0	3.7	3.7	1.7	2.3	1.2	1.9	1.9	2.9	2.8	0.8	100.1
22-Jun	3.6	5.6	3.2	3.5	3.2	4.3	7.1	8.7	5.3	2.7	6.9	6.5	6.5	3.2	3.0	4.5	1.9	0.8	2.1	3.7	5.8	4.0	2.4	1.6	100.1
23-Jun	2.2	3.7	4.0	2.8	1.3	2.1	2.7	6.7	7.4	2.6	3.8	4.7	5.7	5.7	5.0	3.3	3.8	2.2	2.4	4.2	5.9	8.2	3.6	5.9	99.9
24-Jun	3.9	4.7	5.1	5.0	4.6	3.1	2.3	4.2	9.7	6.6	2.9	4.7	4.8	4.9	3.0	2.7	1.9	1.6	1.0	2.4	3.4	8.2	3.9	5.3	99.9
25-Jun	6.4	5.6	4.9	4.1	3.4	3.7	3.4	4.9	6.8	12.5	5.4	2.6	3.6	5.4	5.8	2.8	2.7	1.4	1.1	1.3	1.1	2.7	4.6	3.9	100.1
26-Jun	3.8	5.2	3.9	2.3	1.8	1.6	1.0	0.6	0.6	1.1	6.9	6.9	3.0	4.6	11.1	8.9	4.5	3.9	3.8	4.5	4.5	4.6	8.0	2.8	99.9
27-Jun	2.5	3.8	5.9	4.9	2.6	2.1	2.6	2.3	2.5	3.0	4.4	5.2	8.6	6.4	4.5	5.1	3.8	2.5	3.2	1.6	3.6	4.0	6.9	8.1	100.1
28-Jun	6.9	5.0	4.8	4.8	4.2	3.9	2.6	3.3	4.3	4.4	3.3	5.0	6.7	10.0	7.2	3.0	3.3	3.2	3.0	3.0	2.3	2.5	2.2	1.5	100.4
29-Jun	3.9	4.7	3.1	2.2	1.7	2.5	3.2	2.6	2.0	1.7	3.0	2.5	4.0	4.5	8.2	4.2	2.4	3.3	5.2	8.2	8.0	5.2	6.7	7.0	100.0
30-Jun	5.2	7.6	6.6	2.6	3.7	3.7	4.3	3.1	2.6	2.5	3.1	3.7	3.7	3.9	4.3	10.3	8.3	4.3	1.7	2.0	3.8	2.9	3.2	2.7	99.8
01-Jul	2.5	3.3	5.2	7.3	6.0	4.6	5.5	2.6	3.8	3.5	2.8	4.1	1.8	1.6	1.2	2.6	6.6	6.7	1.5	2.6	5.6	6.8	7.1	5.0	100.3
02-Jul	4.1	4.1	4.5	7.8	12.8	8.3	5.4	6.3	7.7	4.9	3.4	2.3	1.2	1.7	4.2	3.7	3.6	5.2	2.3	1.9	0.8	1.2	1.1	1.6	100.1
03-Jul	9.4	10.1	7.6	7.4	8.5	7.0	3.7	2.6	3.2	2.8	1.1	1.3	2.7	2.4	1.1	2.5	2.6	3.5	2.3	1.1	3.8	5.4	4.1	3.5	99.7
04-Jul	1.4	4.7	5.8	4.8	6.9	11.8	4.7	2.9	2.1	4.1	3.3	2.1	2.0	2.8	3.0	2.4	1.7	2.7	7.9	2.8	1.7	3.8	7.1	7.4	99.9
05-Jul	5.0	5.3	5.2	4.3	5.2	7.0	13.6	5.2	3.7	5.2	5.6	4.8	2.8	1.7	1.6	1.1	1.2	1.5	2.9	6.2	3.4	2.3	1.9	3.5	100.2
06-Jul	4.5	4.2	5.4	2.8	3.6	3.0	2.7	3.9	2.2	1.5	3.3	5.5	1.9	2.5	1.2	1.9	3.0	2.7	3.6	2.2	7.0	5.5	9.7	16.4	100.2
07-Jul	3.2	2.2	2.4	2.2	2.2	2.8	3.0	11.6	8.5	2.6	2.2	3.1	4.3	2.4	2.1	2.4	2.0	3.6	3.6	6.4	10.1	6.8	2.7	7.5	99.9
08-Jul	4.7	3.3	2.4	2.4	5.4	6.2	7.4	10.6	15.8	6.3	2.8	1.9	2.8	4.2	1.5	3.1	3.4	2.9	2.6	0.8	2.8	4.2	1.6	0.9	100.0
09-Jul	10.1	11.2	11.6	10.1	6.8	4.3	4.2	2.8	3.7	2.8	3.7	3.1	2.3	3.4	4.7	2.5	2.2	1.9	1.7	1.2	1.2	1.2	1.9	1.4	100.0
10-Jul	3.3	2.1	6.3	2.1	2.1	1.3	4.6	2.5	3.8	3.3	2.9	5.9	3.8	4.2	3.3	4.2	7.5	2.5	1.7	2.9	6.3	0.4	8.4	14.6	100.0
11-Jul	3.9	6.1	7.7	6.6	8.1	4.4	3.9	2.8	3.7	6.6	2.9	3.9	3.1	4.2	3.7	2.4	2.8	1.5	4.1	1.1	1.5	2.0	3.5	9.6	100.1
12-Jul	11.0	9.9	8.8	6.4	5.7	7.7	5.5	4.0	2.9	2.2	1.8	4.0	0.7	3.5	3.7	4.2	2.4	3.5	1.8	2.0	1.1	1.8	1.5	4.2	100.3
13-Jul	0.3	0.5	0.3	0.4	0.8	0.9	1.3	2.2	2.4	2.0	1.3	1.5	1.4	2.2	2.5	4.3	3.6	5.6	13.1	13.0	12.3	11.4	10.1	6.8	100.2
14-Jul	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.5	3.7	6.5	4.0	9.2	4.6	2.9	5.2	3.0	2.1	1.8	1.3	3.5	5.3	2.4	3.2	100.1
15-Jul	2.9	4.0	5.5	5.0	5.6	5.8	5.6	4.0	4.2	4.1	2.7	3.7	2.8	1.9	0.5	1.7	4.4	3.3	1.1	4.5	6.4	4.3	6.5	9.6	100.1
16-Jul	7.2	4.9	2.3	2.8	6.7	4.6	9.9	8.4	7.4	7.3	5.5	1.5	1.4	1.1	1.3	1.8	5.6	6.6	3.7	1.1	1.1	1.6	3.0	3.1	99.9
17-Jul	5.2	4.4	5.0	3.8	8.3	5.3	2.4	3.0	4.0	5.0	3.6	4.5	3.5	3.6	3.9	3.8	3.4	5.5	4.5	3.0	3.4	1.0	5.2	4.6	99.9
18-Jul	2.1	2.5	3.2	3.5	4.0	7.2	3.7	3.0	4.0	8.2	4.5	4.6	2.9	5.0	3.5	6.1	4.5	3.1	8.3	4.2	2.9	2.4	3.0	3.6	100.0
19-Jul	6.2	5.9	5.1	2.1	3.2	6.9	10.2	5.1	4.8	3.1	4.5	3.3	6.1	2.0	1.4	4.3	2.4	1.5	2.1	3.3	3.4	4.0	4.0	4.9	99.8
20-Jul	2.3	3.3	4.1	2.4	4.9	5.7	6.6	8.6	4.8	5.0	7.7	5.7	4.1	4.0	0.8	1.1	1.4	1.9	2.1	6.3	6.1	3.9	2.8	4.0	99.6
21-Jul	5.7	3.5	1.1	2.2	2.5	1.9	3.8	10.0	8.6	3.3	5.8	7.7	5.3	8.9	2.4	2.4	1.7	2.8	1.3	2.4	6.0	3.1	3.5	4.2	100.1

-Continued-

Table 20. (p. 2 of 2)

26

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
22-Jul	2.4	2.6	2.9	1.3	1.6	4.2	3.9	3.4	5.4	3.9	2.3	6.0	1.8	3.7	3.3	2.4	2.0	2.1	3.3	4.2	8.9	8.5	8.3	11.5	99.9
23-Jul	1.8	2.5	2.0	1.2	1.5	2.4	1.2	1.2	3.6	12.7	5.3	5.6	5.7	2.2	4.2	3.3	4.3	5.7	2.7	4.2	7.5	8.4	7.9	2.9	100.0
24-Jul	3.4	2.0	2.2	1.4	1.3	2.6	1.8	2.6	3.2	3.5	5.6	8.6	2.7	4.4	2.8	4.2	3.2	4.4	5.1	4.2	5.0	6.4	12.9	6.5	100.0
25-Jul	1.5	2.6	1.5	1.4	1.7	2.7	1.4	0.7	2.3	3.2	5.0	7.7	6.0	4.0	5.3	2.7	5.6	5.4	7.3	8.5	8.2	8.1	4.8	2.6	100.2
26-Jul	3.2	4.3	3.1	3.0	4.2	7.3	4.2	3.2	4.9	4.5	6.5	7.5	4.5	3.8	3.9	1.8	3.3	5.3	3.4	1.7	3.0	3.1	4.2	5.9	99.8
27-Jul	4.9	5.8	3.9	1.9	3.4	2.8	6.0	3.3	4.3	4.7	3.1	1.6	2.0	2.0	3.9	1.4	2.4	5.2	3.8	5.4	5.8	5.9	8.8	7.4	99.7
28-Jul	3.7	2.7	3.1	1.9	3.4	3.9	5.9	4.0	3.6	2.3	1.6	2.1	2.7	2.7	2.3	5.0	9.0	3.7	4.3	8.8	8.6	7.9	3.6	3.2	100.0
29-Jul	6.4	5.0	4.8	5.6	4.3	5.4	7.0	3.8	3.3	5.3	3.1	2.8	3.1	1.6	0.9	4.2	4.4	7.5	2.9	1.4	5.2	6.1	2.1	3.9	100.1
30-Jul	2.9	2.8	2.7	4.0	4.1	3.8	6.1	5.5	5.8	4.0	3.0	2.1	2.4	2.2	2.4	5.0	3.6	10.2	7.3	3.3	5.1	3.9	4.2	3.5	99.9
31-Jul	5.4	5.8	5.6	5.0	1.8	5.8	4.8	4.4	3.6	5.2	3.8	2.4	3.2	3.0	4.4	6.6	3.6	2.4	2.4	3.4	1.8	6.8	3.8	4.6	99.6
01-Aug	2.4	3.1	3.0	2.7	2.5	2.1	4.8	2.4	3.1	2.5	3.6	5.8	3.6	2.5	2.5	3.0	10.3	3.6	11.1	9.3	3.1	2.5	4.0	6.0	99.5
02-Aug	3.7	2.9	3.3	2.2	1.9	3.0	4.4	7.7	4.1	5.4	3.5	4.0	2.5	3.3	3.2	4.1	6.2	4.6	4.7	6.4	7.4	6.3	3.0	2.2	100.0
03-Aug	3.4	2.6	2.1	1.5	1.4	2.6	1.4	3.4	4.3	3.6	6.0	5.7	5.3	6.7	4.6	7.5	6.7	2.2	7.5	6.7	6.3	5.3	0.9	2.2	99.9
04-Aug	4.2	3.4	2.6	1.8	2.4	2.0	2.2	6.2	4.2	10.2	2.6	6.6	4.0	3.4	6.4	4.0	2.8	5.2	3.6	4.8	8.0	2.8	4.0	3.0	100.4
05-Aug	2.3	1.1	3.4	1.4	1.6	2.3	1.1	2.8	3.4	6.2	4.4	3.9	4.4	4.4	2.3	7.1	4.8	2.8	4.4	6.7	7.8	8.5	8.0	4.8	99.9

Table 21. Estimated salmon escapement adjacent to the north bank of the Crescent River, 25 June through 2 August 1993. Species composition of daily sonar counts based on fish wheel catches.

Date	SOCKEYE		PINK		CHUM		COHO		DOLLY VARDEN	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
25-Jun	357	357	0	0	2	2	0	0	7	7
26-Jun	366	723	0	0	2	4	0	0	7	14
27-Jun	87	810	0	0	1	5	0	0	1	15
28-Jun	353	1,163	0	0	2	7	0	0	7	22
29-Jun	105	1,268	0	0	1	8	0	0	2	24
30-Jun	174	1,442	0	0	2	10	0	0	3	27
01-Jul	657	2,099	0	0	4	14	0	0	13	40
02-Jul	205	2,304	0	0	2	16	0	0	4	44
03-Jul	587	2,891	0	0	4	20	0	0	12	56
04-Jul	3,996	6,887	0	0	26	46	0	0	79	135
05-Jul	2,071	8,958	0	0	14	60	0	0	41	176
06-Jul	293	9,251	0	0	2	62	0	0	6	182
07-Jul	421	9,672	2	2	3	65	0	0	35	217
08-Jul	592	10,264	4	6	3	68	0	0	50	267
09-Jul	894	11,158	6	12	6	74	0	0	74	341
10-Jul	644	11,802	4	16	4	78	0	0	54	395
11-Jul	1,467	13,269	35	51	0	78	0	0	50	445
12-Jul	1,234	14,503	30	81	0	78	0	0	41	486
13-Jul	1,381	15,884	35	116	35	113	0	0	17	503
14-Jul	2,916	18,800	74	190	73	186	0	0	36	539
15-Jul	2,992	21,792	108	298	47	233	0	0	31	570
16-Jul	2,301	24,093	83	381	36	269	0	0	24	594
17-Jul	1,627	25,720	98	479	66	335	0	0	99	693
18-Jul	1,421	27,141	87	566	57	392	0	0	87	780
19-Jul	1,105	28,246	139	705	70	462	0	0	130	910
20-Jul	765	29,011	96	801	48	510	0	0	90	1,000
21-Jul	929	29,940	96	897	40	550	0	0	77	1,077
22-Jul	911	30,851	94	991	39	589	0	0	75	1,152
23-Jul	881	31,732	90	1,081	82	671	0	0	65	1,217
24-Jul	743	32,475	77	1,158	70	741	0	0	54	1,271
25-Jul	671	33,146	84	1,242	58	799	0	0	41	1,312
26-Jul	952	34,098	117	1,359	82	881	0	0	59	1,371
27-Jul	659	34,757	105	1,464	60	941	0	0	23	1,394
28-Jul	639	35,396	104	1,568	57	998	0	0	22	1,416
29-Jul	402	35,798	103	1,671	168	1,166	0	0	18	1,434
30-Jul	611	36,409	38	1,709	184	1,350	0	0	44	1,478
31-Jul	426	36,835	71	1,780	131	1,481	0	0	36	1,514
01-Aug	331	37,166	89	1,869	180	1,661	0	0	48	1,562
02-Aug	390	37,556	107	1,976	211	1,872	0	0	57	1,619

Table 22. Estimated salmon escapement adjacent to the south bank of the Crescent River, 25 June through 2 August 1993. Species composition of daily sonar counts based on fish wheel catches.

Date	SOCKEYE		PINK		CHUM		COHO		DOLLY VARDEN	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
25-Jun	238	238	0	0	1	1	0	0	5	5
26-Jun	165	403	0	0	1	2	0	0	3	8
27-Jun	15	418	0	0	0	2	0	0	0	8
28-Jun	145	563	0	0	1	3	0	0	3	11
29-Jun	41	604	0	0	0	3	0	0	1	12
30-Jun	107	711	0	0	1	4	0	0	2	14
01-Jul	351	1,062	0	0	2	6	0	0	7	21
02-Jul	106	1,168	0	0	1	7	0	0	2	23
03-Jul	338	1,506	0	0	2	9	0	0	7	30
04-Jul	2,581	4,087	0	0	17	26	0	0	51	81
05-Jul	1,341	5,428	0	0	9	35	0	0	27	108
06-Jul	153	5,581	0	0	1	36	0	0	3	111
07-Jul	274	5,855	1	1	2	38	0	0	23	134
08-Jul	297	6,152	2	3	2	40	0	0	25	159
09-Jul	544	6,696	3	6	4	44	0	0	45	204
10-Jul	379	7,075	2	8	2	46	0	0	32	236
11-Jul	818	7,893	19	27	0	46	0	0	28	264
12-Jul	691	8,584	17	44	0	46	0	0	23	287
13-Jul	795	9,379	20	64	20	66	0	0	10	297
14-Jul	1,306	10,685	33	97	33	99	0	0	16	313
15-Jul	1,800	12,485	65	162	28	127	0	0	19	332
16-Jul	1,496	13,981	54	216	23	150	0	0	16	348
17-Jul	921	14,902	56	272	37	187	0	0	56	404
18-Jul	768	15,670	47	319	31	218	0	0	47	451
19-Jul	687	16,357	87	406	43	261	0	0	81	532
20-Jul	477	16,834	60	466	30	291	0	0	56	588
21-Jul	556	17,390	57	523	24	315	0	0	46	634
22-Jul	495	17,885	51	574	21	336	0	0	41	675
23-Jul	540	18,425	55	629	50	386	0	0	40	715
24-Jul	425	18,850	44	673	40	426	0	0	31	746
25-Jul	344	19,194	43	716	30	456	0	0	21	767
26-Jul	358	19,552	44	760	31	487	0	0	22	789
27-Jul	272	19,824	61	821	13	500	0	0	5	794
28-Jul	276	20,100	63	884	13	513	0	0	5	799
29-Jul	175	20,275	45	929	73	586	0	0	8	807
30-Jul	319	20,594	20	949	96	682	0	0	23	830
31-Jul	199	20,793	33	982	61	743	0	0	17	847
01-Aug	170	20,963	46	1,028	92	835	0	0	25	872
02-Aug	182	21,145	50	1,078	98	933	0	0	27	899

Table 23. Crescent River north bank sonar counts by sector, 25 June through 2 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
25-Jun	41	6	37	29	6	1	1	0	1	0	0	0	122
26-Jun	2	16	112	59	12	1	2	1	1	0	0	0	206
27-Jun	2	8	36	15	10	2	0	0	0	0	1	0	74
28-Jun	3	9	114	49	19	6	3	0	0	0	0	10	213
29-Jun	1	2	33	15	14	1	0	0	0	0	0	0	66
30-Jun	0	7	40	16	2	4	0	0	0	0	0	0	69
01-Jul	7	35	224	28	9	2	1	1	1	2	2	2	314
02-Jul	1	13	64	15	8	1	0	0	0	0	0	0	102
03-Jul	33	73	133	12	1	1	0	0	0	0	1	2	256
04-Jul	39	356	971	67	13	1	1	4	0	0	0	0	1,452
05-Jul	54	87	389	166	28	9	9	1	0	2	1	3	749
06-Jul	3	33	76	19	6	1	2	0	1	1	0	2	144
07-Jul	7	24	79	20	7	7	6	4	3	3	1	0	161
08-Jul	20	93	159	29	2	8	9	0	1	2	0	0	323
09-Jul	40	137	177	24	6	0	0	0	0	0	0	0	384
10-Jul	22	121	120	19	0	2	3	1	2	0	1	0	291
11-Jul	44	357	273	8	0	0	0	0	1	1	3	0	687
12-Jul	47	321	200	4	1	1	0	0	0	0	0	0	574
13-Jul	101	384	122	8	8	0	0	0	0	0	0	0	623
14-Jul	205	888	567	36	6	2	0	1	0	0	4	2	1,711
15-Jul	239	471	506	40	3	3	0	0	0	2	1	1	1,266
16-Jul	331	356	159	9	0	0	0	0	0	0	0	0	855
17-Jul	471	204	121	9	0	0	0	0	0	1	6	8	820
18-Jul	243	288	208	16	1	0	1	1	0	0	0	1	759
19-Jul	140	262	132	12	0	0	0	0	0	0	0	0	546
20-Jul	85	177	103	11	0	0	0	0	0	0	0	0	376
21-Jul	68	236	142	10	0	0	0	0	0	0	0	3	459
22-Jul	62	274	162	9	2	0	0	0	0	0	0	2	511
23-Jul	75	215	120	15	1	1	0	0	0	0	3	3	433
24-Jul	75	198	117	11	0	0	1	0	0	0	0	2	404
25-Jul	129	181	89	12	0	0	0	0	0	0	0	5	416
26-Jul	193	325	189	44	3	1	0	0	0	0	0	0	755
27-Jul	125	201	149	14	0	0	0	0	1	3	1	2	496
28-Jul	130	179	138	12	4	1	0	0	0	0	0	1	465
29-Jul	131	168	81	6	0	0	0	0	0	0	0	4	390
30-Jul	136	172	101	10	0	0	0	0	0	0	0	0	419
31-Jul	99	145	104	5	0	0	0	0	0	0	1	0	354
01-Aug	98	109	91	14	0	0	0	0	0	0	0	3	315
02-Aug	137	158	92	19	2	0	0	0	0	0	0	1	409
Total	3,639	7,289	6,730	916	174	56	39	14	12	17	26	57	18,969

Table 24. Crescent River north bank sonar counts by sector, 25 June through 2 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
25-Jun	33.6	4.9	30.3	23.8	4.9	0.8	0.8	0.0	0.8	0.0	0.0	0.0	99.9
26-Jun	1.0	7.8	54.4	28.6	5.8	0.5	1.0	0.5	0.5	0.0	0.0	0.0	100.1
27-Jun	2.7	10.8	48.6	20.3	13.5	2.7	0.0	0.0	0.0	0.0	1.4	0.0	100.0
28-Jun	1.4	4.2	53.5	23.0	8.9	2.8	1.4	0.0	0.0	0.0	0.0	4.7	99.9
29-Jun	1.5	3.0	50.0	22.7	21.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	99.9
30-Jun	0.0	10.1	58.0	23.2	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	100.0
01-Jul	2.2	11.1	71.3	8.9	2.9	0.6	0.3	0.3	0.3	0.6	0.6	0.6	99.7
02-Jul	1.0	12.7	62.7	14.7	7.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	99.9
03-Jul	12.9	28.5	52.0	4.7	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.8	100.1
04-Jul	2.7	24.5	66.9	4.6	0.9	0.1	0.1	0.3	0.0	0.0	0.0	0.0	100.1
05-Jul	7.2	11.6	51.9	22.2	3.7	1.2	1.2	0.1	0.0	0.3	0.1	0.4	99.9
06-Jul	2.1	22.9	52.8	13.2	4.2	0.7	1.4	0.0	0.7	0.7	0.0	1.4	100.1
07-Jul	4.3	14.9	49.1	12.4	4.3	4.3	3.7	2.5	1.9	1.9	0.6	0.0	99.9
08-Jul	6.2	28.8	49.2	9.0	0.6	2.5	2.8	0.0	0.3	0.6	0.0	0.0	100.0
09-Jul	10.4	35.7	46.1	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.1
10-Jul	7.6	41.6	41.2	6.5	0.0	0.7	1.0	0.3	0.7	0.0	0.3	0.0	99.9
11-Jul	6.4	52.0	39.7	1.2	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.0	99.9
12-Jul	8.2	55.9	34.8	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0
13-Jul	16.2	61.6	19.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
14-Jul	12.0	51.9	33.1	2.1	0.4	0.1	0.0	0.1	0.0	0.0	0.2	0.1	100.0
15-Jul	18.9	37.2	40.0	3.2	0.2	0.2	0.0	0.0	0.0	0.2	0.1	0.1	100.1
16-Jul	38.7	41.6	18.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
17-Jul	57.4	24.9	14.8	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.0	100.0
18-Jul	32.0	37.9	27.4	2.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	99.8
19-Jul	25.6	48.0	24.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
20-Jul	22.6	47.1	27.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
21-Jul	14.8	51.4	30.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	100.0
22-Jul	12.1	53.6	31.7	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	100.0
23-Jul	17.3	49.7	27.7	3.5	0.2	0.2	0.0	0.0	0.0	0.0	0.7	0.7	100.0
24-Jul	18.6	49.0	29.0	2.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	100.0
25-Jul	31.0	43.5	21.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	100.0
26-Jul	25.6	43.0	25.0	5.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	99.9
27-Jul	25.2	40.5	30.0	2.8	0.0	0.0	0.0	0.0	0.2	0.6	0.2	0.4	99.9
28-Jul	28.0	38.5	29.7	2.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.2	100.1
29-Jul	33.6	43.1	20.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	100.0
30-Jul	32.5	41.1	24.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.1
31-Jul	28.0	41.0	29.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	100.1
01-Aug	31.1	34.6	28.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	100.0
02-Aug	33.5	38.6	22.5	4.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	99.9

Table 25. Crescent River south bank sonar counts by sector, 25 June through 2 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
25-Jun	223	16	5	0	0	0	0	0	0	0	0	0	244
26-Jun	168	1	0	0	0	0	0	0	0	0	0	0	169
27-Jun	15	0	0	0	0	0	0	0	0	0	0	0	15
28-Jun	146	3	0	0	0	0	0	0	0	0	0	0	149
29-Jun	41	0	0	0	0	0	0	0	0	1	0	0	42
30-Jun	110	0	0	0	0	0	0	0	0	0	0	0	110
01-Jul	360	0	0	0	0	0	0	0	0	0	0	0	360
02-Jul	109	0	0	0	0	0	0	0	0	0	0	0	109
03-Jul	347	0	0	0	0	0	0	0	0	0	0	0	347
04-Jul	2,640	9	0	0	0	0	0	0	0	0	0	0	2,649
05-Jul	1,377	0	0	0	0	0	0	0	0	0	0	0	1,377
06-Jul	157	0	0	0	0	0	0	0	0	0	0	0	157
07-Jul	299	1	0	0	0	0	0	0	0	0	0	0	300
08-Jul	316	10	0	0	0	0	0	0	0	0	0	0	326
09-Jul	594	2	0	0	0	0	0	0	0	0	0	0	596
10-Jul	415	0	0	0	0	0	0	0	0	0	0	0	415
11-Jul	865	0	0	0	0	0	0	0	0	0	0	0	865
12-Jul	731	0	0	0	0	0	0	0	0	0	0	0	731
13-Jul	837	8	0	0	0	0	0	0	0	0	0	0	845
14-Jul	1,383	5	0	0	0	0	0	0	0	0	0	0	1,388
15-Jul	1,903	9	0	0	0	0	0	0	0	0	0	0	1,912
16-Jul	1,589	0	0	0	0	0	0	0	0	0	0	0	1,589
17-Jul	1,070	0	0	0	0	0	0	0	0	0	0	0	1,070
18-Jul	892	1	0	0	0	0	0	0	0	0	0	0	893
19-Jul	897	1	0	0	0	0	0	0	0	0	0	0	898
20-Jul	623	0	0	0	0	0	0	0	0	0	0	0	623
21-Jul	683	0	0	0	0	0	0	0	0	0	0	0	683
22-Jul	608	0	0	0	0	0	0	0	0	0	0	0	608
23-Jul	685	0	0	0	0	0	0	0	0	0	0	0	685
24-Jul	540	0	0	0	0	0	0	0	0	0	0	0	540
25-Jul	438	0	0	0	0	0	0	0	0	0	0	0	438
26-Jul	455	0	0	0	0	0	0	0	0	0	0	0	455
27-Jul	350	1	0	0	0	0	0	0	0	0	0	0	351
28-Jul	355	2	0	0	0	0	0	0	0	0	0	0	357
29-Jul	301	0	0	0	0	0	0	0	0	0	0	0	301
30-Jul	458	0	0	0	0	0	0	0	0	0	0	0	458
31-Jul	309	1	0	0	0	0	0	0	0	0	0	0	310
01-Aug	333	0	0	0	0	0	0	0	0	0	0	0	333
02-Aug	356	1	0	0	0	0	0	0	0	0	0	0	357
Total	23,978	71	5	0	0	0	0	0	0	1	0	0	24,055

Table 26. Crescent River south bank sonar counts by sector, 25 June through 2 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
25-Jun	91.4	6.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
26-Jun	99.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
27-Jun	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
28-Jun	98.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
29-Jun	97.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	100.0
30-Jun	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
01-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
02-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
03-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
04-Jul	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
05-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
06-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
07-Jul	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
08-Jul	96.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
09-Jul	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
10-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
11-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
12-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
13-Jul	99.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
14-Jul	99.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
15-Jul	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
16-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
17-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
18-Jul	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
19-Jul	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
20-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
21-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
22-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
23-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
24-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
25-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
26-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
27-Jul	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
28-Jul	99.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
29-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
30-Jul	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
31-Jul	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
01-Aug	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
02-Aug	99.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

Table 27. Crescent River north bank sonar counts by hour, 25 June through 2 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
25-Jun	1	1	0	0	0	0	0	0	1	0	0	0	1	1	10	14	13	7	5	11	6	15	30	6	122
26-Jun	2	5	3	1	2	0	0	0	0	0	0	4	16	10	22	33	40	41	8	16	0	1	0	2	206
27-Jun	9	8	1	1	1	0	0	1	1	0	1	2	1	3	10	9	11	2	6	1	6	0	0	0	74
28-Jun	0	3	0	2	0	4	0	0	1	0	0	0	6	0	2	14	35	15	44	40	32	8	6	1	213
29-Jun	0	2	5	0	4	0	0	0	1	0	2	0	0	1	7	8	16	6	6	3	4	0	0	1	66
30-Jun	1	0	0	0	0	0	0	0	0	2	4	1	0	5	1	11	1	2	17	18	2	1	1	2	69
01-Jul	1	4	0	4	2	0	3	0	3	7	3	6	16	14	24	13	17	54	33	50	37	20	2	1	314
02-Jul	11	4	7	1	2	0	12	12	0	2	0	1	0	7	3	6	5	14	2	2	3	4	4	0	102
03-Jul	4	1	15	1	6	3	0	4	2	4	8	2	1	3	7	49	23	31	25	22	11	15	15	4	256
04-Jul	2	16	7	4	7	5	0	1	7	7	1	7	15	44	138	176	255	207	149	144	179	51	26	4	1452
05-Jul	17	19	20	13	7	18	4	2	2	13	2	6	14	72	55	24	22	106	40	130	83	52	16	12	749
06-Jul	7	26	12	20	5	1	0	0	0	0	4	1	2	2	4	4	3	0	1	4	32	10	4	2	144
07-Jul	7	25	19	12	2	0	0	4	0	1	4	0	1	9	4	0	3	4	1	7	26	9	23	0	161
08-Jul	0	45	23	19	1	0	0	4	0	0	1	3	3	1	6	5	2	2	0	4	52	73	40	39	323
09-Jul	52	43	58	5	10	1	5	3	0	9	1	14	8	11	0	13	29	25	2	2	5	13	37	38	384
10-Jul	18	12	11	29	12	9	0	0	0	0	6	2	5	2	0	3	6	3	1	0	4	30	80	58	291
11-Jul	18	12	12	8	22	10	8	5	8	12	25	53	103	70	60	41	71	18	11	14	4	11	53	38	687
12-Jul	4	8	2	0	3	8	16	23	33	39	46	62	44	79	65	44	19	12	15	32	1	2	5	12	574
13-Jul	4	2	5	3	3	9	13	7	2	11	34	70	73	67	42	89	97	27	38	10	5	2	4	6	623
14-Jul	11	8	5	7	5	16	28	33	2	42	81	77	100	63	209	169	456	220	89	40	29	10	3	8	1711
15-Jul	14	30	40	39	46	37	43	33	20	24	51	95	107	108	93	14	104	125	111	57	52	17	4	2	1266
16-Jul	0	0	3	3	0	8	6	3	17	46	65	49	93	37	127	76	94	159	15	12	24	6	1	11	855
17-Jul	5	31	37	35	31	36	48	26	15	6	33	52	52	22	26	20	74	100	92	46	16	12	4	1	820
18-Jul	4	9	11	6	5	8	9	11	8	23	22	17	13	31	34	24	68	129	180	85	31	26	1	4	759
19-Jul	1	4	0	0	7	4	9	27	27	20	30	43	15	38	36	37	27	19	85	71	26	13	5	2	546
20-Jul	0	0	3	1	1	2	1	5	13	6	9	21	10	29	12	7	7	26	91	78	17	26	9	2	376
21-Jul	3	4	0	3	3	4	2	20	13	5	21	21	11	14	30	41	20	22	18	75	66	15	28	20	459
22-Jul	8	13	13	8	2	9	10	23	17	46	16	50	46	20	15	5	29	14	9	51	48	28	10	21	511
23-Jul	4	2	9	0	4	5	10	23	16	17	12	8	15	26	21	22	25	6	23	17	37	54	57	20	433
24-Jul	5	9	16	27	10	14	21	4	5	7	30	5	27	15	26	18	20	13	15	3	5	57	31	21	404
25-Jul	17	11	6	6	9	10	4	3	5	0	6	20	48	49	32	35	8	27	12	12	25	24	38	9	416
26-Jul	19	8	5	1	10	10	26	43	11	15	37	64	42	82	50	44	23	80	30	23	17	13	49	53	755
27-Jul	16	20	15	9	13	14	20	22	2	27	22	35	34	40	37	32	22	31	32	39	5	0	5	4	496
28-Jul	12	11	1	2	7	10	12	14	10	18	45	21	53	23	34	40	39	28	47	18	9	2	9	0	465
29-Jul	2	4	2	3	4	12	10	25	12	31	41	33	14	19	20	17	41	41	18	15	18	6	2	0	390
30-Jul	0	0	1	0	1	1	6	16	7	7	11	11	31	34	20	40	40	59	68	44	8	11	1	2	419
31-Jul	0	0	1	1	3	6	7	4	1	26	17	37	13	9	13	3	8	58	58	47	23	8	7	4	354
01-Aug	8	0	2	0	2	4	4	4	5	16	12	19	21	27	26	17	21	1	4	60	29	15	11	7	315
02-Aug	5	2	2	1	4	1	5	10	12	14	21	9	18	30	23	34	17	11	38	62	48	24	12	6	409
Total	292	402	372	275	256	279	342	415	279	503	724	921	1,072	1,117	1,344	1,251	1,811	1,745	1,439	1,365	1,025	684	633	423	18,969

Table 28. Crescent River north bank sonar counts by hour, 25 June through 2 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
25-Jun	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8	8.2	11.5	10.7	5.7	4.1	9.0	4.9	12.3	24.6	4.9	99.9
26-Jun	1.0	2.4	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.8	4.9	10.7	16.0	19.4	19.9	3.9	7.8	0.0	0.5	0.0	1.0	100.2
27-Jun	12.2	10.8	1.4	1.4	1.4	0.0	0.0	1.4	1.4	0.0	1.4	2.7	1.4	4.1	13.5	12.2	14.9	2.7	8.1	1.4	8.1	0.0	0.0	0.0	100.5
28-Jun	0.0	1.4	0.0	0.9	0.0	1.9	0.0	0.0	0.5	0.0	0.0	0.0	2.8	0.0	0.9	6.6	16.4	7.0	20.7	18.8	15.0	3.8	2.8	0.5	100.0
29-Jun	0.0	3.0	7.6	0.0	6.1	0.0	0.0	0.0	1.5	0.0	3.0	0.0	0.0	1.5	10.6	12.1	24.2	9.1	9.1	4.5	6.1	0.0	0.0	1.5	99.9
30-Jun	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	1.4	0.0	7.2	1.4	15.9	1.4	2.9	24.6	26.1	2.9	1.4	1.4	2.9	99.6
01-Jul	0.3	1.3	0.0	1.3	0.6	0.0	1.0	0.0	1.0	2.2	1.0	1.9	5.1	4.5	7.6	4.1	5.4	17.2	10.5	15.9	11.8	6.4	0.6	0.3	100.0
02-Jul	10.8	3.9	6.9	1.0	2.0	0.0	11.8	11.8	0.0	2.0	0.0	1.0	0.0	6.9	2.9	5.9	4.9	13.7	2.0	2.0	2.9	3.9	3.9	0.0	100.2
03-Jul	1.6	0.4	5.9	0.4	2.3	1.2	0.0	1.6	0.8	1.6	3.1	0.8	0.4	1.2	2.7	19.1	9.0	12.1	9.8	8.6	4.3	5.9	5.9	1.6	100.3
04-Jul	0.1	1.1	0.5	0.3	0.5	0.3	0.0	0.1	0.5	0.5	0.1	0.5	1.0	3.0	9.5	12.1	17.6	14.3	10.3	9.9	12.3	3.5	1.8	0.3	100.1
05-Jul	2.3	2.5	2.7	1.7	0.9	2.4	0.5	0.3	0.3	1.7	0.3	0.8	1.9	9.6	7.3	3.2	2.9	14.2	5.3	17.4	11.1	6.9	2.1	1.6	99.9
06-Jul	4.9	18.1	8.3	13.9	3.5	0.7	0.0	0.0	0.0	0.0	2.8	0.7	1.4	1.4	2.8	2.8	2.1	0.0	0.7	2.8	22.2	6.9	2.8	1.4	100.2
07-Jul	4.3	15.5	11.8	7.5	1.2	0.0	0.0	2.5	0.0	0.6	2.5	0.0	0.6	5.6	2.5	0.0	1.9	2.5	0.6	4.3	16.1	5.6	14.3	0.0	99.9
08-Jul	0.0	13.9	7.1	5.9	0.3	0.0	0.0	1.2	0.0	0.0	0.3	0.9	0.9	0.3	1.9	1.5	0.6	0.6	0.0	1.2	16.1	22.6	12.4	12.1	99.8
09-Jul	13.5	11.2	15.1	1.3	2.6	0.3	1.3	0.8	0.0	2.3	0.3	3.6	2.1	2.9	0.0	3.4	7.6	6.5	0.5	0.5	1.3	3.4	9.6	9.9	100.0
10-Jul	6.2	4.1	3.8	10.0	4.1	3.1	0.0	0.0	0.0	0.0	2.1	0.7	1.7	0.7	0.0	1.0	2.1	1.0	0.3	0.0	1.4	10.3	27.5	19.9	100.0
11-Jul	2.6	1.7	1.7	1.2	3.2	1.5	1.2	0.7	1.2	1.7	3.6	7.7	15.0	10.2	8.7	6.0	10.3	2.6	1.6	2.0	0.6	1.6	7.7	5.5	99.8
12-Jul	0.7	1.4	0.3	0.0	0.5	1.4	2.8	4.0	5.7	6.8	8.0	10.8	7.7	13.8	11.3	7.7	3.3	2.1	2.6	5.6	0.2	0.3	0.9	2.1	100.0
13-Jul	0.6	0.3	0.8	0.5	0.5	1.4	2.1	1.1	0.3	1.8	5.5	11.2	11.7	10.8	6.7	14.3	15.6	4.3	6.1	1.6	0.8	0.3	0.6	1.0	99.9
14-Jul	0.6	0.5	0.3	0.4	0.3	0.9	1.6	1.9	0.1	2.5	4.7	4.5	5.8	3.7	12.2	9.9	26.7	12.9	5.2	2.3	1.7	0.6	0.2	0.5	100.0
15-Jul	1.1	2.4	3.2	3.1	3.6	2.9	3.4	2.6	1.6	1.9	4.0	7.5	8.5	8.5	7.3	1.1	8.2	9.9	8.8	4.5	4.1	1.3	0.3	0.2	100.0
16-Jul	0.0	0.0	0.4	0.4	0.0	0.9	0.7	0.4	2.0	5.4	7.6	5.7	10.9	4.3	14.9	8.9	11.0	18.6	1.8	1.4	2.8	0.7	0.1	1.3	100.2
17-Jul	0.6	3.8	4.5	4.3	3.8	4.4	5.9	3.2	1.8	0.7	4.0	6.3	6.3	2.7	3.2	2.4	9.0	12.2	11.2	5.6	2.0	1.5	0.5	0.1	100.0
18-Jul	0.5	1.2	1.4	0.8	0.7	1.1	1.2	1.4	1.1	3.0	2.9	2.2	1.7	4.1	4.5	3.2	9.0	17.0	23.7	11.2	4.1	3.4	0.1	0.5	100.0
19-Jul	0.2	0.7	0.0	0.0	1.3	0.7	1.6	4.9	4.9	3.7	5.5	7.9	2.7	7.0	6.6	6.8	4.9	3.5	15.6	13.0	4.8	2.4	0.9	0.4	100.0
20-Jul	0.0	0.0	0.8	0.3	0.3	0.5	0.3	1.3	3.5	1.6	2.4	5.6	2.7	7.7	3.2	1.9	1.9	6.9	24.2	20.7	4.5	6.9	2.4	0.5	100.1
21-Jul	0.7	0.9	0.0	0.7	0.7	0.9	0.4	4.4	2.8	1.1	4.6	4.6	2.4	3.1	6.5	8.9	4.4	4.8	3.9	16.3	14.4	3.3	6.1	4.4	100.3
22-Jul	1.6	2.5	2.5	1.6	0.4	1.8	2.0	4.5	3.3	9.0	3.1	9.8	9.0	3.9	2.9	1.0	5.7	2.7	1.8	10.0	9.4	5.5	2.0	4.1	100.1
23-Jul	0.9	0.5	2.1	0.0	0.9	1.2	2.3	5.3	3.7	3.9	2.8	1.8	3.5	6.0	4.8	5.1	5.8	1.4	5.3	3.9	8.5	12.5	13.2	4.6	100.0
24-Jul	1.2	2.2	4.0	6.7	2.5	3.5	5.2	1.0	1.2	1.7	7.4	1.2	6.7	3.7	6.4	4.5	5.0	3.2	3.7	0.7	1.2	14.1	7.7	5.2	99.9
25-Jul	4.1	2.6	1.4	1.4	2.2	2.4	1.0	0.7	1.2	0.0	1.4	4.8	11.5	11.8	7.7	8.4	1.9	6.5	2.9	2.9	6.0	5.8	9.1	2.2	99.9
26-Jul	2.5	1.1	0.7	0.1	1.3	1.3	3.4	5.7	1.5	2.0	4.9	8.5	5.6	10.9	6.6	5.8	3.0	10.6	4.0	3.0	2.3	1.7	6.5	7.0	100.0
27-Jul	3.2	4.0	3.0	1.8	2.6	2.8	4.0	4.4	0.4	5.4	4.4	7.1	6.9	8.1	7.5	6.5	4.4	6.3	6.5	7.9	1.0	0.0	1.0	0.8	100.0
28-Jul	2.6	2.4	0.2	0.4	1.5	2.2	2.6	3.0	2.2	3.9	9.7	4.5	11.4	4.9	7.3	8.6	8.4	6.0	10.1	3.9	1.9	0.4	1.9	0.0	100.0
29-Jul	0.5	1.0	0.5	0.8	1.0	3.1	2.6	6.4	3.1	7.9	10.5	8.5	3.6	4.9	5.1	4.4	10.5	10.5	4.6	3.8	4.6	1.5	0.5	0.0	99.9
30-Jul	0.0	0.0	0.2	0.0	0.2	0.2	1.4	3.8	1.7	1.7	2.6	2.6	7.4	8.1	4.8	9.5	9.5	14.1	16.2	10.5	1.9	2.6	0.2	0.5	99.7
31-Jul	0.0	0.0	0.3	0.3	0.8	1.7	2.0	1.1	0.3	7.3	4.8	10.5	3.7	2.5	3.7	0.8	2.3	16.4	16.4	13.3	6.5	2.3	2.0	1.1	100.1
01-Aug	2.5	0.0	0.6	0.0	0.6	1.3	1.3	1.3	1.6	5.1	3.8	6.0	6.7	8.6	8.3	5.4	6.7	0.3	1.3	19.0	9.2	4.8	3.5	2.2	100.1
02-Aug	1.2	0.5	0.5	0.2	1.0	0.2	1.2	2.4	2.9	3.4	5.1	2.2	4.4	7.3	5.6	8.3	4.2	2.7	9.3	15.2	11.7	5.9	2.9	1.5	99.8

Table 29. Crescent River south bank sonar counts by hour, 25 June through 2 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
25-Jun	0	0	0	0	0	0	0	0	0	0	35	4	10	26	30	35	16	13	10	15	10	15	24	1	244
26-Jun	5	8	2	6	0	3	0	0	0	0	0	2	2	47	63	7	5	12	3	0	0	4	0	0	169
27-Jun	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	6	5	0	0	0	1	0	0	0	15
28-Jun	0	0	2	0	0	0	3	0	0	0	0	0	3	8	2	10	38	11	20	31	6	10	5	0	149
29-Jun	0	1	0	0	0	0	0	1	0	0	1	1	1	0	15	7	2	2	1	7	0	1	2	0	42
30-Jun	0	1	0	1	0	0	0	0	1	0	1	0	4	7	1	14	8	7	16	19	18	9	1	2	110
01-Jul	2	1	2	0	2	0	0	0	2	0	0	1	16	12	19	57	22	49	57	105	6	5	2	0	360
02-Jul	3	6	2	0	1	0	1	0	8	0	0	0	0	1	5	4	2	3	13	23	19	11	5	2	109
03-Jul	5	7	5	0	1	0	3	0	12	0	5	3	17	15	27	58	46	29	28	52	15	9	6	4	347
04-Jul	12	19	4	1	2	1	1	0	7	2	15	5	48	348	302	517	332	338	226	272	169	15	11	2	2,649
05-Jul	5	12	4	3	3	1	0	1	1	3	30	13	81	127	137	164	389	180	78	86	33	23	1	2	1,377
06-Jul	8	20	8	7	1	0	0	0	0	0	1	15	1	13	31	13	11	1	3	3	5	11	2	3	157
07-Jul	13	96	43	10	5	1	0	0	1	1	1	0	1	23	28	42	13	3	1	4	7	2	3	2	300
08-Jul	9	53	17	18	4	0	0	0	0	1	0	0	5	13	9	2	0	1	1	2	5	43	141	2	326
09-Jul	11	38	29	11	7	0	3	2	20	21	40	2	6	34	71	70	36	9	5	24	37	10	59	51	596
10-Jul	36	27	17	18	7	7	2	4	1	4	11	8	13	9	12	15	23	12	9	23	15	13	64	65	415
11-Jul	39	26	27	18	12	12	5	5	10	7	5	20	55	86	73	65	130	60	21	27	11	11	80	60	865
12-Jul	6	1	1	4	2	10	10	30	19	23	47	40	36	72	102	81	77	78	20	15	20	5	11	21	731
13-Jul	5	3	1	4	9	18	13	19	8	28	60	37	62	46	28	147	132	108	58	25	7	5	4	18	845
14-Jul	23	9	1	7	21	19	15	8	15	18	53	66	76	131	84	96	247	243	138	63	23	13	11	8	1,388
15-Jul	16	24	8	11	26	25	28	22	23	13	57	95	61	70	151	129	366	286	202	180	81	21	12	5	1,912
16-Jul	1	2	5	13	6	33	24	31	28	62	107	90	100	188	178	165	203	175	109	30	21	8	9	1	1,589
17-Jul	4	0	0	0	2	9	18	30	37	18	28	37	23	20	104	94	63	212	173	98	41	31	25	3	1,070
18-Jul	0	0	0	0	1	1	2	1	7	14	20	30	22	26	68	56	30	112	198	144	84	36	25	16	893
19-Jul	6	4	6	2	2	9	26	73	49	6	45	57	40	36	18	70	61	32	123	87	72	52	19	3	898
20-Jul	2	0	0	0	1	13	16	14	32	15	10	20	13	35	18	43	41	21	71	69	109	54	24	2	623
21-Jul	7	6	0	1	5	4	3	15	13	10	11	19	20	5	35	46	38	30	33	84	162	47	66	23	683
22-Jul	14	1	6	6	1	6	8	23	15	51	30	32	24	10	58	28	27	18	16	51	111	39	25	8	608
23-Jul	9	8	4	6	1	5	4	20	7	14	21	22	27	31	21	50	38	25	18	24	111	141	53	25	685
24-Jul	6	6	5	5	9	7	5	13	4	11	21	25	12	13	14	30	31	54	25	29	13	106	74	22	540
25-Jul	7	9	15	13	10	13	17	11	14	10	8	13	48	17	30	16	17	17	19	22	13	31	53	15	438
26-Jul	5	7	3	8	10	4	9	28	25	11	12	24	29	19	35	46	40	34	19	10	9	1	14	53	455
27-Jul	12	15	6	4	1	3	20	8	14	14	4	24	17	29	34	31	27	32	35	9	1	3	6	2	351
28-Jul	3	5	9	3	3	2	4	8	14	6	19	18	18	17	14	48	29	30	16	21	42	21	5	2	357
29-Jul	4	2	4	1	0	7	13	16	14	11	10	7	12	14	23	41	27	17	35	15	9	15	4	0	301
30-Jul	1	0	0	3	0	2	10	13	5	7	4	8	7	43	60	47	32	38	68	52	30	15	9	4	458
31-Jul	0	0	0	0	1	6	3	1	9	14	3	12	9	11	8	39	23	25	34	58	40	7	5	2	310
01-Aug	6	1	2	1	0	4	18	4	10	7	8	17	15	14	8	13	22	43	25	17	27	36	27	8	333
02-Aug	3	0	2	1	0	2	1	23	7	4	6	8	35	39	16	19	22	35	26	27	36	12	2	31	357
Total	288	418	242	187	156	227	285	424	432	406	729	775	969	1,655	1,932	2,421	2,671	2,395	1,953	1,823	1,419	891	889	468	24,055

CS

Table 30. Crescent River south bank sonar counts by hour, 25 June through 2 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
25-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	1.6	4.1	10.7	12.3	14.3	6.6	5.3	4.1	6.1	4.1	6.1	9.8	0.4	99.8
26-Jun	3.0	4.7	1.2	3.6	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.2	1.2	27.8	37.3	4.1	3.0	7.1	1.8	0.0	0.0	2.4	0.0	0.0	100.2
27-Jun	0.0	0.0	13.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	33.3	0.0	0.0	0.0	6.7	0.0	0.0	0.0	100.0
28-Jun	0.0	0.0	1.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	5.4	1.3	6.7	25.5	7.4	13.4	20.8	4.0	6.7	3.4	0.0	99.9
29-Jun	0.0	2.4	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	2.4	2.4	0.0	35.7	16.7	4.8	4.8	2.4	16.7	0.0	2.4	4.8	0.0	100.3
30-Jun	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	3.6	6.4	0.9	12.7	7.3	6.4	14.5	17.3	16.4	8.2	0.9	1.8	100.0
01-Jul	0.6	0.3	0.6	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.3	4.4	3.3	5.3	15.8	6.1	13.6	15.8	29.2	1.7	1.4	0.6	0.0	100.2
02-Jul	2.8	5.5	1.8	0.0	0.9	0.0	0.9	0.0	7.3	0.0	0.0	0.0	0.9	4.6	3.7	1.8	2.8	11.9	21.1	17.4	10.1	4.6	1.8	0.0	99.9
03-Jul	1.4	2.0	1.4	0.0	0.3	0.0	0.9	0.0	3.5	0.0	1.4	0.9	4.9	4.3	7.8	16.7	13.3	8.4	8.1	15.0	4.3	2.6	1.7	1.2	100.1
04-Jul	0.5	0.7	0.2	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.6	0.2	1.8	13.1	11.4	19.5	12.5	12.8	8.5	10.3	6.4	0.6	0.4	0.1	100.1
05-Jul	0.4	0.9	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.2	2.2	0.9	5.9	9.2	9.9	11.9	28.2	13.1	5.7	6.2	2.4	1.7	0.1	0.1	100.0
06-Jul	5.1	12.7	5.1	4.5	0.6	0.0	0.0	0.0	0.0	0.0	0.6	9.6	0.6	8.3	19.7	8.3	7.0	0.6	1.9	1.9	3.2	7.0	1.3	1.9	99.9
07-Jul	4.3	32.0	14.3	3.3	1.7	0.3	0.0	0.0	0.3	0.3	0.3	0.0	0.3	7.7	9.3	14.0	4.3	1.0	0.3	1.3	2.3	0.7	1.0	0.7	99.7
08-Jul	2.8	16.3	5.2	5.5	1.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	1.5	4.0	2.8	0.6	0.0	0.3	0.3	0.6	1.5	13.2	43.3	0.6	100.0
09-Jul	1.8	6.4	4.9	1.8	1.2	0.0	0.5	0.3	3.4	3.5	6.7	0.3	1.0	5.7	11.9	11.7	6.0	1.5	0.8	4.0	6.2	1.7	9.9	8.6	99.8
10-Jul	8.7	6.5	4.1	4.3	1.7	1.7	0.5	1.0	0.2	1.0	2.7	1.9	3.1	2.2	2.9	3.6	5.5	2.9	2.2	5.5	3.6	3.1	15.4	15.7	100.0
11-Jul	4.5	3.0	3.1	2.1	1.4	1.4	0.6	0.6	1.2	0.8	0.6	2.3	6.4	9.9	8.4	7.5	15.0	6.9	2.4	3.1	1.3	1.3	9.2	6.9	99.9
12-Jul	0.8	0.1	0.1	0.5	0.3	1.4	1.4	4.1	2.6	3.1	6.4	5.5	4.9	9.8	14.0	11.1	10.5	10.7	2.7	2.1	2.7	0.7	1.5	2.9	99.9
13-Jul	0.6	0.4	0.1	0.5	1.1	2.1	1.5	2.2	0.9	3.3	7.1	4.4	7.3	5.4	3.3	17.4	15.6	12.8	6.9	3.0	0.8	0.6	0.5	2.1	99.9
14-Jul	1.7	0.6	0.1	0.5	1.5	1.4	1.1	0.6	1.1	1.3	3.8	4.8	5.5	9.4	6.1	6.9	17.8	17.5	9.9	4.5	1.7	0.9	0.8	0.6	100.1
15-Jul	0.8	1.3	0.4	0.6	1.4	1.3	1.5	1.2	1.2	0.7	3.0	5.0	3.2	3.7	7.9	6.7	19.1	15.0	10.6	9.4	4.2	1.1	0.6	0.3	100.2
16-Jul	0.1	0.1	0.3	0.8	0.4	2.1	1.5	2.0	1.8	3.9	6.7	5.7	6.3	11.8	11.2	10.4	12.8	11.0	6.9	1.9	1.3	0.5	0.6	0.1	100.2
17-Jul	0.4	0.0	0.0	0.0	0.2	0.8	1.7	2.8	3.5	1.7	2.6	3.5	2.1	1.9	9.7	8.8	5.9	19.8	16.2	9.2	3.8	2.9	2.3	0.3	100.1
18-Jul	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.8	1.6	2.2	3.4	2.5	2.9	7.6	6.3	3.4	12.5	22.2	16.1	9.4	4.0	2.8	1.8	100.0
19-Jul	0.7	0.4	0.7	0.2	0.2	1.0	2.9	8.1	5.5	0.7	5.0	6.3	4.5	4.0	2.0	7.8	6.8	3.6	13.7	9.7	8.0	5.8	2.1	0.3	100.0
20-Jul	0.3	0.0	0.0	0.0	0.2	2.1	2.6	2.2	5.1	2.4	1.6	3.2	2.1	5.6	2.9	6.9	6.6	3.4	11.4	11.1	17.5	8.7	3.9	0.3	100.1
21-Jul	1.0	0.9	0.0	0.1	0.7	0.6	0.4	2.2	1.9	1.5	1.6	2.8	2.9	0.7	5.1	6.7	5.6	4.4	4.8	12.3	23.7	6.9	9.7	3.4	99.9
22-Jul	2.3	0.2	1.0	1.0	0.2	1.0	1.3	3.8	2.5	8.4	4.9	5.3	3.9	1.6	9.5	4.6	4.4	3.0	2.6	8.4	18.3	6.4	4.1	1.3	100.0
23-Jul	1.3	1.2	0.6	0.9	0.1	0.7	0.6	2.9	1.0	2.0	3.1	3.2	3.9	4.5	3.1	7.3	5.5	3.6	2.6	3.5	16.2	20.6	7.7	3.6	99.7
24-Jul	1.1	1.1	0.9	0.9	1.7	1.3	0.9	2.4	0.7	2.0	3.9	4.6	2.2	2.4	2.6	5.6	5.7	10.0	4.6	5.4	2.4	19.6	13.7	4.1	99.8
25-Jul	1.6	2.1	3.4	3.0	2.3	3.0	3.9	2.5	3.2	2.3	1.8	3.0	11.0	3.9	6.8	3.7	3.9	3.9	4.3	5.0	3.0	7.1	12.1	3.4	100.2
26-Jul	1.1	1.5	0.7	1.8	2.2	0.9	2.0	6.2	5.5	2.4	2.6	5.3	6.4	4.2	7.7	10.1	8.8	7.5	4.2	2.2	2.0	0.2	3.1	11.6	100.2
27-Jul	3.4	4.3	1.7	1.1	0.3	0.9	5.7	2.3	4.0	4.0	1.1	6.8	4.8	8.3	9.7	8.8	7.7	9.1	10.0	2.6	0.3	0.9	1.7	0.6	100.1
28-Jul	0.8	1.4	2.5	0.8	0.8	0.6	1.1	2.2	3.9	1.7	5.3	5.0	5.0	4.8	3.9	13.4	8.1	8.4	4.5	5.9	11.8	5.9	1.4	0.6	99.8
29-Jul	1.3	0.7	1.3	0.3	0.0	2.3	4.3	5.3	4.7	3.7	3.3	2.3	4.0	4.7	7.6	13.6	9.0	5.6	11.6	5.0	3.0	5.0	1.3	0.0	99.9
30-Jul	0.2	0.0	0.0	0.7	0.0	0.4	2.2	2.8	1.1	1.5	0.9	1.7	1.5	9.4	13.1	10.3	7.0	8.3	14.8	11.4	6.6	3.3	2.0	0.9	100.1
31-Jul	0.0	0.0	0.0	0.0	0.3	1.9	1.0	0.3	2.9	4.5	1.0	3.9	2.9	3.5	2.6	12.6	7.4	8.1	11.0	18.7	12.9	2.3	1.6	0.6	100.0
01-Aug	1.8	0.3	0.6	0.3	0.0	1.2	5.4	1.2	3.0	2.1	2.4	5.1	4.5	4.2	2.4	3.9	6.6	12.9	7.5	5.1	8.1	10.8	8.1	2.4	99.9
02-Aug	0.8	0.0	0.6	0.3	0.0	0.6	0.3	6.4	2.0	1.1	1.7	2.2	9.8	10.9	4.5	5.3	6.2	9.8	7.3	7.6	10.1	3.4	0.6	8.7	100.2

Table 31. Estimated salmon escapement adjacent to the north bank of the Yentna River, 7 July through 6 August 1993. Species composition of daily sonar counts based on fish wheel catches.

	SOCKEYE		PINK		CHUM		COHO		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
07-Jul	59	59	62	62	12	12	1	1	5	5
08-Jul	52	111	55	117	11	23	1	2	4	9
09-Jul	45	156	48	165	9	32	1	3	4	13
10-Jul	50	206	52	217	10	42	1	4	4	17
11-Jul	34	240	35	252	6	48	1	5	3	20
12-Jul	37	277	40	292	7	55	1	6	3	23
13-Jul	40	317	43	335	8	63	1	7	3	26
14-Jul	53	370	55	390	10	73	2	9	4	30
15-Jul	112	482	118	508	22	95	3	12	9	39
16-Jul	597	1,079	399	907	60	155	21	33	0	39
17-Jul	865	1,944	443	1,350	52	207	62	95	10	49
18-Jul	494	2,438	326	1,676	61	268	14	109	0	49
19-Jul	76	2,514	285	1,961	39	307	17	126	7	56
20-Jul	232	2,746	433	2,394	38	345	29	155	3	59
21-Jul	157	2,903	526	2,920	32	377	28	183	0	59
22-Jul	19	2,922	113	3,033	7	384	4	187	0	59
23-Jul	30	2,952	153	3,186	18	402	11	198	0	59
24-Jul	76	3,028	542	3,728	35	437	43	241	2	61
25-Jul	72	3,100	1,618	5,346	83	520	105	346	0	61
26-Jul	197	3,297	1,313	6,659	164	684	239	585	6	67
27-Jul	347	3,644	2,269	8,928	359	1,043	335	920	0	67
28-Jul	276	3,920	4,145	13,073	487	1,530	286	1,206	0	67
29-Jul	187	4,107	3,891	16,964	231	1,761	216	1,422	0	67
30-Jul	254	4,361	5,804	22,768	551	2,312	513	1,935	0	67
31-Jul	292	4,653	4,265	27,033	498	2,810	413	2,348	0	67
01-Aug	227	4,880	3,799	30,832	96	2,906	215	2,563	0	67
02-Aug	191	5,071	2,557	33,389	155	3,061	256	2,819	0	67
03-Aug	261	5,332	3,396	36,785	623	3,684	570	3,389	0	67
04-Aug	241	5,573	4,315	41,100	1,460	5,144	1,004	4,393	25	92
05-Aug	50	5,623	2,569	43,669	668	5,812	228	4,621	0	92
06-Aug	43	5,666	1,951	45,620	540	6,352	257	4,878	0	92

Table 32. Estimated salmon escapement adjacent to the south bank of the Yentna River, 7 July through 7 August 1993. Species composition of daily sonar counts based on fish wheel catches.

	SOCKEYE		PINK		CHUM		COHO		CHINOOK	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
07-Jul	85	85	62	62	13	13	10	10	19	19
08-Jul	110	195	81	143	16	29	13	23	25	44
09-Jul	147	342	108	251	22	51	17	40	33	77
10-Jul	152	494	111	362	23	74	17	57	35	112
11-Jul	117	611	86	448	18	92	13	70	27	139
12-Jul	89	700	66	514	13	105	11	81	20	159
13-Jul	124	824	153	667	32	137	10	91	1	160
14-Jul	131	955	161	828	34	171	10	101	1	161
15-Jul	605	1,560	741	1,569	157	328	44	145	7	168
16-Jul	16,413	17,973	2,496	4,065	448	776	370	515	53	221
17-Jul	20,394	38,367	3,141	7,206	387	1,163	510	1,025	0	221
18-Jul	10,194	48,561	3,190	10,396	743	1,906	453	1,478	0	221
19-Jul	3,067	51,628	1,782	12,178	131	2,037	147	1,625	11	232
20-Jul	5,121	56,749	2,158	14,336	227	2,264	215	1,840	12	244
21-Jul	6,094	62,843	2,540	16,876	201	2,465	258	2,098	0	244
22-Jul	6,893	69,736	5,139	22,015	302	2,767	409	2,507	0	244
23-Jul	8,667	78,403	10,061	32,076	465	3,232	870	3,377	0	244
24-Jul	10,200	88,603	12,417	44,493	508	3,740	1,602	4,979	0	244
25-Jul	8,793	97,396	14,734	59,227	1,388	5,128	2,528	7,507	0	244
26-Jul	7,425	104,821	13,534	72,761	1,239	6,367	2,802	10,309	0	244
27-Jul	6,239	111,060	10,923	83,684	1,231	7,598	2,581	12,890	0	244
28-Jul	2,784	113,844	12,555	96,239	1,621	9,219	1,886	14,776	0	244
29-Jul	3,549	117,393	14,236	110,475	910	10,129	1,682	16,458	0	244
30-Jul	4,719	122,112	12,774	123,249	1,636	11,765	2,891	19,349	13	257
31-Jul	4,518	126,630	12,624	135,873	1,581	13,346	3,603	22,952	0	257
01-Aug	1,433	128,063	10,608	146,481	794	14,140	1,243	24,195	0	257
02-Aug	1,497	129,560	7,334	153,815	600	14,740	1,013	25,208	0	257
03-Aug	2,184	131,744	7,173	160,988	1,376	16,116	2,620	27,828	0	257
04-Aug	2,226	133,970	8,171	169,159	1,930	18,046	2,132	29,960	0	257
05-Aug	926	134,896	5,223	174,382	1,154	19,200	1,392	31,352	14	271
06-Aug	630	135,526	3,868	178,250	1,361	20,561	783	32,135	0	271
07-Aug	502	136,028	3,301	181,551	1,108	21,669	739	32,874	0	271

Table 33. Yentna River north bank sonar counts by sector, 1 July through 6 August 1993.

Date	Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
07-Jul	44	34	23	10	13	2	9	1	3	0	0	0	139
08-Jul	52	17	20	12	7	3	1	0	1	7	3	0	123
09-Jul	36	27	10	8	5	10	1	1	4	2	3	0	107
10-Jul	16	28	23	10	4	6	1	3	2	1	3	20	117
11-Jul	17	18	9	17	4	9	2	0	2	0	1	0	79
12-Jul	10	28	22	7	3	0	2	1	0	0	1	14	88
13-Jul	12	23	20	9	7	4	1	0	0	0	0	19	95
14-Jul	46	24	29	15	6	0	2	1	0	0	0	1	124
15-Jul	16	52	84	57	22	18	7	2	2	1	2	1	264
16-Jul	73	112	438	208	110	71	19	22	5	8	2	9	1,077
17-Jul	207	251	512	225	115	89	6	1	1	0	8	17	1,432
18-Jul	87	329	298	116	49	14	0	2	0	0	0	0	895
19-Jul	77	121	82	18	1	0	59	1	58	2	0	5	424
20-Jul	94	344	167	38	26	38	1	0	26	1	0	0	735
21-Jul	116	416	160	27	11	4	0	0	9	0	0	0	743
22-Jul	40	70	24	7	1	1	0	0	0	0	0	0	143
23-Jul	36	107	55	6	3	2	0	1	0	0	0	2	212
24-Jul	100	341	170	38	28	16	2	2	0	0	0	1	698
25-Jul	486	789	368	105	64	37	9	4	4	2	1	9	1,878
26-Jul	887	683	206	61	31	30	8	7	3	2	1	0	1,919
27-Jul	1,473	1,201	371	107	72	41	6	13	2	7	2	15	3,310
28-Jul	923	1,378	1,449	787	329	225	20	36	8	8	6	25	5,194
29-Jul	157	1,324	2,102	736	159	21	14	0	0	0	0	12	4,525
30-Jul	2,344	1,687	1,687	685	281	190	34	20	13	100	20	61	7,122
31-Jul	2,937	1,639	549	181	74	41	14	6	5	8	8	6	5,468
01-Aug	1,500	1,440	869	326	97	69	20	7	2	2	1	4	4,337
02-Aug	1,380	828	501	209	140	50	13	12	0	8	1	17	3,159
03-Aug	1,745	1,244	861	444	265	95	62	41	14	20	9	50	4,850
04-Aug	1,078	1,876	1,664	1,313	625	235	72	53	41	39	42	7	7,045
05-Aug	428	716	980	835	340	133	32	13	11	11	9	7	3,515
06-Aug	536	912	669	395	164	52	33	12	2	4	5	7	2,791
Total	16,953	18,059	14,422	7,012	3,056	1,506	450	262	218	233	128	309	62,608

Table 34. Yentna River north bank sonar counts by sector, 1 July through 6 August 1993. Counts expressed as percent of daily total.

Percent of Counts by Sector													Daily Total
Date	1	2	3	4	5	6	7	8	9	10	11	12	
07-Jul	31.7	24.5	16.5	7.2	9.4	1.4	6.5	0.7	2.2	0.0	0.0	0.0	100.1
08-Jul	42.3	13.8	16.3	9.8	5.7	2.4	0.8	0.0	0.8	5.7	2.4	0.0	100.0
09-Jul	33.6	25.2	9.3	7.5	4.7	9.3	0.9	0.9	3.7	1.9	2.8	0.0	99.8
10-Jul	13.7	23.9	19.7	8.5	3.4	5.1	0.9	2.6	1.7	0.9	2.6	17.1	100.1
11-Jul	21.5	22.8	11.4	21.5	5.1	11.4	2.5	0.0	2.5	0.0	1.3	0.0	100.0
12-Jul	11.4	31.8	25.0	8.0	3.4	0.0	2.3	1.1	0.0	0.0	1.1	15.9	100.0
13-Jul	12.6	24.2	21.1	9.5	7.4	4.2	1.1	0.0	0.0	0.0	0.0	20.0	100.1
14-Jul	37.1	19.4	23.4	12.1	4.8	0.0	1.6	0.8	0.0	0.0	0.0	0.8	100.0
15-Jul	6.1	19.7	31.8	21.6	8.3	6.8	2.7	0.8	0.8	0.4	0.8	0.4	100.2
16-Jul	6.8	10.4	40.7	19.3	10.2	6.6	1.8	2.0	0.5	0.7	0.2	0.8	100.0
17-Jul	14.5	17.5	35.8	15.7	8.0	6.2	0.4	0.1	0.1	0.0	0.6	1.2	100.1
18-Jul	9.7	36.8	33.3	13.0	5.5	1.6	0.0	0.2	0.0	0.0	0.0	0.0	100.1
19-Jul	18.2	28.5	19.3	4.2	0.2	0.0	13.9	0.2	13.7	0.5	0.0	1.2	99.9
20-Jul	12.8	46.8	22.7	5.2	3.5	5.2	0.1	0.0	3.5	0.1	0.0	0.0	99.9
21-Jul	15.6	56.0	21.5	3.6	1.5	0.5	0.0	0.0	1.2	0.0	0.0	0.0	99.9
22-Jul	28.0	49.0	16.8	4.9	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	100.1
23-Jul	17.0	50.5	25.9	2.8	1.4	0.9	0.0	0.5	0.0	0.0	0.0	0.9	99.9
24-Jul	14.3	48.9	24.4	5.4	4.0	2.3	0.3	0.3	0.0	0.0	0.0	0.1	100.0
25-Jul	25.9	42.0	19.6	5.6	3.4	2.0	0.5	0.2	0.2	0.1	0.1	0.5	100.1
26-Jul	46.2	35.6	10.7	3.2	1.6	1.6	0.4	0.4	0.2	0.1	0.1	0.0	100.1
27-Jul	44.5	36.3	11.2	3.2	2.2	1.2	0.2	0.4	0.1	0.2	0.1	0.5	100.1
28-Jul	17.8	26.5	27.9	15.2	6.3	4.3	0.4	0.7	0.2	0.2	0.1	0.5	100.1
29-Jul	3.5	29.3	46.5	16.3	3.5	0.5	0.3	0.0	0.0	0.0	0.0	0.3	100.2
30-Jul	32.9	23.7	23.7	9.6	3.9	2.7	0.5	0.3	0.2	1.4	0.3	0.9	100.1
31-Jul	53.7	30.0	10.0	3.3	1.4	0.7	0.3	0.1	0.1	0.1	0.1	0.1	99.9
01-Aug	34.6	33.2	20.0	7.5	2.2	1.6	0.5	0.2	0.0	0.0	0.0	0.1	99.9
02-Aug	43.7	26.2	15.9	6.6	4.4	1.6	0.4	0.4	0.0	0.3	0.0	0.5	100.0
03-Aug	36.0	25.6	17.8	9.2	5.5	2.0	1.3	0.8	0.3	0.4	0.2	1.0	100.1
04-Aug	15.3	26.6	23.6	18.6	8.9	3.3	1.0	0.8	0.6	0.6	0.6	0.1	100.0
05-Aug	12.2	20.4	27.9	23.8	9.7	3.8	0.9	0.4	0.3	0.3	0.3	0.2	100.2
06-Aug	19.2	32.7	24.0	14.2	5.9	1.9	1.2	0.4	0.1	0.1	0.2	0.3	100.2

Table 35. Yentna River south bank sonar counts by sector, 1 July through 7 August 1993.

Counts by Sector													Daily Total
Date	1	2	3	4	5	6	7	8	9	10	11	12	
07-Jul	47	38	29	27	19	11	4	7	6	0	1	0	189
08-Jul	41	70	38	20	36	14	5	8	0	7	0	6	245
09-Jul	47	83	43	51	30	34	12	7	4	11	3	2	327
10-Jul	36	103	75	40	33	29	4	7	5	4	1	1	338
11-Jul	106	72	27	17	10	15	5	4	4	1	0	0	261
12-Jul	26	90	34	19	15	1	1	3	0	0	1	9	199
13-Jul	57	122	78	36	12	5	3	4	1	0	0	2	320
14-Jul	75	112	76	34	8	7	3	2	4	0	6	10	337
15-Jul	127	463	463	267	115	67	24	10	5	6	4	3	1,554
16-Jul	358	5,208	7,789	3,685	1,608	727	153	96	44	50	23	39	19,780
17-Jul	681	8,137	9,809	3,956	1,316	412	67	26	10	4	1	13	24,432
18-Jul	1,108	7,259	3,949	1,463	507	258	21	11	2	1	0	1	14,580
19-Jul	594	2,914	1,178	300	99	24	0	20	2	0	0	7	5,138
20-Jul	1,690	4,643	915	288	114	64	2	4	5	6	0	2	7,733
21-Jul	1,432	6,215	992	328	83	8	2	24	2	3	3	1	9,093
22-Jul	1,005	9,039	1,926	603	136	12	12	7	0	2	0	1	12,743
23-Jul	1,676	10,979	3,811	2,020	928	455	104	18	26	1	16	29	20,063
24-Jul	3,920	13,203	4,374	1,889	926	260	36	25	8	31	19	36	24,727
25-Jul	2,628	10,534	7,214	3,634	1,903	899	230	166	64	50	37	84	27,443
26-Jul	1,962	7,578	5,961	3,937	2,427	1,558	567	369	168	171	124	178	25,000
27-Jul	3,828	6,828	3,888	2,575	1,693	1,023	337	303	123	106	62	208	20,974
28-Jul	3,654	7,948	4,100	1,839	767	321	112	56	15	7	9	18	18,846
29-Jul	2,296	8,422	6,506	2,329	614	163	26	11	2	3	0	5	20,377
30-Jul	1,091	5,496	8,823	3,794	1,720	752	156	90	45	22	23	21	22,033
31-Jul	969	6,249	9,645	3,397	1,363	477	101	74	19	15	11	6	22,326
01-Aug	993	4,618	5,275	1,901	762	362	68	45	21	8	14	11	14,078
02-Aug	741	5,253	2,377	1,119	473	265	83	52	22	13	13	33	10,444
03-Aug	2,163	3,897	2,202	1,614	1,287	1,068	453	279	134	87	76	93	13,353
04-Aug	2,234	3,125	2,340	1,835	1,397	1,418	622	470	248	250	177	343	14,459
05-Aug	1,059	2,347	1,589	1,153	894	772	284	195	121	121	72	102	8,709
06-Aug	704	1,821	1,233	879	728	618	216	154	91	58	58	82	6,642
07-Aug	975	1,726	1,048	664	511	389	113	63	30	22	17	92	5,650
Total	38,323	144,592	97,807	45,713	22,534	12,488	3,826	2,610	1,231	1,060	771	1,438	372,393

Table 36. Yentna River north bank sonar counts by sector, 1 July through 7 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Sector												Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	
07-Jul	24.9	20.1	15.3	14.3	10.1	5.8	2.1	3.7	3.2	0.0	0.5	0.0	100.0
08-Jul	16.7	28.6	15.5	8.2	14.7	5.7	2.0	3.3	0.0	2.9	0.0	2.4	100.0
09-Jul	14.4	25.4	13.1	15.6	9.2	10.4	3.7	2.1	1.2	3.4	0.9	0.6	100.0
10-Jul	10.7	30.5	22.2	11.8	9.8	8.6	1.2	2.1	1.5	1.2	0.3	0.3	100.2
11-Jul	40.6	27.6	10.3	6.5	3.8	5.7	1.9	1.5	1.5	0.4	0.0	0.0	99.8
12-Jul	13.1	45.2	17.1	9.5	7.5	0.5	0.5	1.5	0.0	0.0	0.5	4.5	99.9
13-Jul	17.8	38.1	24.4	11.3	3.8	1.6	0.9	1.3	0.3	0.0	0.0	0.6	100.1
14-Jul	22.3	33.2	22.6	10.1	2.4	2.1	0.9	0.6	1.2	0.0	1.8	3.0	100.2
15-Jul	8.2	29.8	29.8	17.2	7.4	4.3	1.5	0.6	0.3	0.4	0.3	0.2	100.0
16-Jul	1.8	26.3	39.4	18.6	8.1	3.7	0.8	0.5	0.2	0.3	0.1	0.2	100.0
17-Jul	2.8	33.3	40.1	16.2	5.4	1.7	0.3	0.1	0.0	0.0	0.0	0.1	100.0
18-Jul	7.6	49.8	27.1	10.0	3.5	1.8	0.1	0.1	0.0	0.0	0.0	0.0	100.0
19-Jul	11.6	56.7	22.9	5.8	1.9	0.5	0.0	0.4	0.0	0.0	0.0	0.1	99.9
20-Jul	21.9	60.0	11.8	3.7	1.5	0.8	0.0	0.1	0.1	0.1	0.0	0.0	100.0
21-Jul	15.7	68.3	10.9	3.6	0.9	0.1	0.0	0.3	0.0	0.0	0.0	0.0	99.8
22-Jul	7.9	70.9	15.1	4.7	1.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	100.0
23-Jul	8.4	54.7	19.0	10.1	4.6	2.3	0.5	0.1	0.1	0.0	0.1	0.1	100.0
24-Jul	15.9	53.4	17.7	7.6	3.7	1.1	0.1	0.1	0.0	0.1	0.1	0.1	99.9
25-Jul	9.6	38.4	26.3	13.2	6.9	3.3	0.8	0.6	0.2	0.2	0.1	0.3	99.9
26-Jul	7.8	30.3	23.8	15.7	9.7	6.2	2.3	1.5	0.7	0.7	0.5	0.7	99.9
27-Jul	18.3	32.6	18.5	12.3	8.1	4.9	1.6	1.4	0.6	0.5	0.3	1.0	100.1
28-Jul	19.4	42.2	21.8	9.8	4.1	1.7	0.6	0.3	0.1	0.0	0.0	0.1	100.1
29-Jul	11.3	41.3	31.9	11.4	3.0	0.8	0.1	0.1	0.0	0.0	0.0	0.0	99.9
30-Jul	5.0	24.9	40.0	17.2	7.8	3.4	0.7	0.4	0.2	0.1	0.1	0.1	99.9
31-Jul	4.3	28.0	43.2	15.2	6.1	2.1	0.5	0.3	0.1	0.1	0.0	0.0	99.9
01-Aug	7.1	32.8	37.5	13.5	5.4	2.6	0.5	0.3	0.1	0.1	0.1	0.1	100.1
02-Aug	7.1	50.3	22.8	10.7	4.5	2.5	0.8	0.5	0.2	0.1	0.1	0.3	99.9
03-Aug	16.2	29.2	16.5	12.1	9.6	8.0	3.4	2.1	1.0	0.7	0.6	0.7	100.1
04-Aug	15.5	21.6	16.2	12.7	9.7	9.8	4.3	3.3	1.7	1.7	1.2	2.4	100.1
05-Aug	12.2	26.9	18.2	13.2	10.3	8.9	3.3	2.2	1.4	1.4	0.8	1.2	100.0
06-Aug	10.6	27.4	18.6	13.2	11.0	9.3	3.3	2.3	1.4	0.9	0.9	1.2	100.1
07-Aug	17.3	30.5	18.5	11.8	9.0	6.9	2.0	1.1	0.5	0.4	0.3	1.6	99.9

Table 37. Yentna River north bank sonar counts by hour, 7 July through 6 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
07-Jul	12	2	9	6	8	12	2	4	9	2	4	1	3	3	3	2	1	2	10	12	8	10	3	11	139
08-Jul	2	4	6	1	2	3	6	13	1	2	3	8	2	2	9	9	3	5	2	4	2	8	18	8	123
09-Jul	5	5	6	6	10	0	5	2	6	2	6	6	6	2	5	2	5	2	0	13	0	0	3	10	107
10-Jul	2	8	11	12	2	9	5	1	4	2	3	10	3	3	7	1	6	2	2	4	10	4	6	0	117
11-Jul	6	7	5	4	4	4	4	8	1	4	0	2	2	0	1	6	1	5	0	5	1	6	3	0	79
12-Jul	1	7	3	1	4	5	3	5	1	1	1	2	1	6	11	0	1	2	5	9	3	2	4	10	88
13-Jul	6	1	5	10	5	1	1	5	1	4	6	2	2	4	2	6	6	6	3	3	7	2	3	4	95
14-Jul	5	10	13	9	5	9	5	10	9	1	4	1	4	8	2	3	4	4	4	2	3	3	3	6	124
15-Jul	4	7	7	7	3	7	5	8	6	7	7	5	4	12	7	9	6	12	9	25	23	21	23	40	264
16-Jul	78	56	42	55	40	44	49	34	19	12	18	32	21	40	24	41	55	135	34	45	58	60	43	42	1,077
17-Jul	128	70	97	106	107	96	54	37	57	41	26	41	23	20	43	64	51	44	38	53	40	67	84	45	1,432
18-Jul	76	54	62	34	36	17	29	23	17	14	10	17	38	63	42	67	60	48	28	32	18	29	30	51	895
19-Jul	24	34	15	18	55	15	6	13	4	8	7	7	6	4	12	12	8	5	12	31	75	17	8	28	424
20-Jul	27	15	16	11	30	20	19	13	7	17	19	13	15	16	72	41	45	61	22	49	60	35	62	50	735
21-Jul	70	56	54	33	33	38	17	18	14	17	14	46	35	31	68	37	30	26	19	25	18	11	18	15	743
22-Jul	9	7	5	7	5	9	5	2	0	0	6	8	6	18	10	11	7	5	14	0	1	5	2	1	143
23-Jul	4	5	4	5	1	7	6	3	4	1	4	6	10	9	14	16	7	17	14	14	16	21	11	13	212
24-Jul	28	22	29	22	19	32	14	21	13	30	4	12	19	30	42	51	47	35	37	15	28	33	54	61	698
25-Jul	45	80	65	44	75	62	72	35	25	26	78	95	72	90	68	95	71	144	71	133	84	53	189	106	1,878
26-Jul	85	97	103	55	63	79	72	61	29	29	86	69	130	79	96	78	144	105	34	54	49	37	111	174	1,919
27-Jul	153	142	173	102	118	123	84	106	28	138	114	63	72	97	106	137	160	286	359	119	136	133	123	238	3,310
28-Jul	208	142	167	184	143	153	63	104	43	66	77	216	216	216	216	279	500	282	328	447	358	187	209	390	5,194
29-Jul	334	299	224	147	197	120	119	107	122	78	79	166	170	177	176	164	264	254	264	340	256	149	150	169	4,525
30-Jul	294	265	249	233	183	267	300	131	108	123	246	338	249	300	499	469	598	323	300	384	272	272	300	419	7,122
31-Jul	317	242	207	201	245	202	187	199	143	118	125	275	149	264	299	147	394	353	209	225	94	398	206	269	5,468
01-Aug	178	160	118	113	85	76	93	101	65	79	150	201	178	312	357	165	164	251	279	355	224	197	277	159	4,337
02-Aug	102	61	79	76	76	79	82	71	60	59	58	92	146	132	193	219	212	161	130	179	112	235	328	217	3,159
03-Aug	109	231	199	127	115	109	160	178	204	158	119	76	147	183	198	346	267	234	404	412	163	167	264	280	4,850
04-Aug	332	403	283	280	370	373	258	148	120	154	116	162	128	332	288	414	329	636	484	344	240	235	294	322	7,045
05-Aug	185	248	153	156	171	182	104	83	72	114	123	99	133	194	142	160	144	171	198	150	127	104	136	166	3,515
06-Aug	135	199	97	67	134	93	75	95	48	32	114	71	87	57	172	180	222	200	184	95	83	103	88	160	2,791
Total	2,964	2,939	2,506	2,132	2,344	2,246	1,904	1,639	1,240	1,339	1,624	2,145	2,074	2,700	3,190	3,230	3,811	3,816	3,497	3,578	2,569	2,604	3,053	3,464	62,608

43

Table 38. Yentna River north bank sonar counts by hour, 7 July through 6 August 1993. Counts expressed as percent of daily total.

Date	Percent of Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
07-Jul	8.6	1.4	6.5	4.3	5.8	8.6	1.4	2.9	6.5	1.4	2.9	0.7	2.2	2.2	1.4	0.7	1.4	7.2	8.6	5.8	7.2	2.2	7.9	100.0	
08-Jul	1.6	3.3	4.9	0.8	1.6	2.4	4.9	10.6	0.8	1.6	2.4	6.5	1.6	1.6	7.3	7.3	2.4	4.1	1.6	3.3	1.6	6.5	14.6	6.5	99.8
09-Jul	4.7	4.7	5.6	5.6	9.3	0.0	4.7	1.9	5.6	1.9	5.6	5.6	5.6	1.9	4.7	1.9	4.7	1.9	0.0	12.1	0.0	0.0	2.8	9.3	100.1
10-Jul	1.7	6.8	9.4	10.3	1.7	7.7	4.3	0.9	3.4	1.7	2.6	8.5	2.6	2.6	6.0	0.9	5.1	1.7	1.7	3.4	8.5	3.4	5.1	0.0	100.0
11-Jul	7.6	8.9	6.3	5.1	5.1	5.1	5.1	10.1	1.3	5.1	0.0	2.5	2.5	0.0	1.3	7.6	1.3	6.3	0.0	6.3	1.3	7.6	3.8	0.0	100.2
12-Jul	1.1	8.0	3.4	1.1	4.5	5.7	3.4	5.7	1.1	1.1	1.1	2.3	1.1	6.8	12.5	0.0	1.1	2.3	5.7	10.2	3.4	2.3	4.5	11.4	99.8
13-Jul	6.3	1.1	5.3	10.5	5.3	1.1	1.1	5.3	1.1	4.2	6.3	2.1	2.1	4.2	2.1	6.3	6.3	6.3	3.2	3.2	7.4	2.1	3.2	4.2	100.3
14-Jul	4.0	8.1	10.5	7.3	4.0	7.3	4.0	8.1	7.3	0.8	0.8	3.2	0.8	3.2	6.5	1.6	2.4	3.2	3.2	1.6	2.4	2.4	2.4	4.8	99.9
15-Jul	1.5	2.7	2.7	2.7	1.1	2.7	1.9	3.0	2.3	2.7	2.7	1.9	1.5	4.5	2.7	3.4	2.3	4.5	3.4	9.5	8.7	8.0	8.7	15.2	100.3
16-Jul	7.2	5.2	3.9	5.1	3.7	4.1	4.5	3.2	1.8	1.1	1.7	3.0	1.9	3.7	2.2	3.8	5.1	12.5	3.2	4.2	5.4	5.6	4.0	3.9	100.0
17-Jul	8.9	4.9	6.8	7.4	7.5	6.7	3.8	2.6	4.0	2.9	1.8	2.9	1.6	1.4	3.0	4.5	3.6	3.1	2.7	3.7	2.8	4.7	5.9	3.1	100.3
18-Jul	8.5	6.0	6.9	3.8	4.0	1.9	3.2	2.6	1.9	1.6	1.1	1.9	4.2	7.0	4.7	7.5	6.7	5.4	3.1	3.6	2.0	3.2	3.4	5.7	99.9
19-Jul	5.7	8.0	3.5	4.2	13.0	3.5	1.4	3.1	0.9	1.9	1.7	1.7	1.4	0.9	2.8	2.8	1.9	1.2	2.8	7.3	17.7	4.0	1.9	6.6	99.9
20-Jul	3.7	2.0	2.2	1.5	4.1	2.7	2.6	1.8	1.0	2.3	2.6	1.8	2.0	2.2	9.8	5.6	6.1	8.3	3.0	6.7	8.2	4.8	8.4	6.8	100.2
21-Jul	9.4	7.5	7.3	4.4	4.4	5.1	2.3	2.4	1.9	2.3	1.9	6.2	4.7	4.2	9.2	5.0	4.0	3.5	2.6	3.4	2.4	1.5	2.4	2.0	100.0
22-Jul	6.3	4.9	3.5	4.9	3.5	6.3	3.5	1.4	0.0	0.0	4.2	5.6	4.2	12.6	7.0	7.7	4.9	3.5	9.8	0.0	0.7	3.5	1.4	0.7	100.1
23-Jul	1.9	2.4	1.9	2.4	0.5	3.3	2.8	1.4	1.9	0.5	1.9	2.8	4.7	4.2	6.6	7.5	3.3	8.0	6.6	6.6	7.5	9.9	5.2	6.1	99.9
24-Jul	4.0	3.2	4.2	3.2	2.7	4.6	2.0	3.0	1.9	4.3	0.6	1.7	2.7	4.3	6.0	7.3	6.7	5.0	5.3	2.1	4.0	4.7	7.7	8.7	99.9
25-Jul	2.4	4.3	3.5	2.3	4.0	3.3	3.8	1.9	1.3	1.4	4.2	5.1	3.8	4.8	3.6	5.1	3.8	7.7	3.8	7.1	4.5	2.8	10.1	5.6	100.2
26-Jul	4.4	5.1	5.4	2.9	3.3	4.1	3.8	3.2	1.5	1.5	4.5	3.6	6.8	4.1	5.0	4.1	7.5	5.5	1.8	2.8	2.6	1.9	5.8	9.1	100.3
27-Jul	4.6	4.3	5.2	3.1	3.6	3.7	2.5	3.2	0.8	4.2	3.4	1.9	2.2	2.9	3.2	4.1	4.8	8.6	10.8	3.6	4.1	4.0	3.7	7.2	99.7
28-Jul	4.0	2.7	3.2	3.5	2.8	2.9	1.2	2.0	0.8	1.3	1.5	4.2	4.2	4.2	4.2	5.4	9.6	5.4	6.3	8.6	6.9	3.6	4.0	7.5	100.0
29-Jul	7.4	6.6	5.0	3.2	4.4	2.7	2.6	2.4	2.7	1.7	1.7	3.7	3.8	3.9	3.9	3.6	5.8	5.6	5.8	7.5	5.7	3.3	3.3	3.7	100.0
30-Jul	4.1	3.7	3.5	3.3	2.6	3.7	4.2	1.8	1.5	1.7	3.5	4.7	3.5	4.2	7.0	6.6	8.4	4.5	4.2	5.4	3.8	3.8	4.2	5.9	99.8
31-Jul	5.8	4.4	3.8	3.7	4.5	3.7	3.4	3.6	2.6	2.2	2.3	5.0	2.7	4.8	5.5	2.7	7.2	6.5	3.8	4.1	1.7	7.3	3.8	4.9	100.0
01-Aug	4.1	3.7	2.7	2.6	2.0	1.8	2.1	2.3	1.5	1.8	3.5	4.6	4.1	7.2	8.2	3.8	3.8	5.8	6.4	8.2	5.2	4.5	6.4	3.7	100.0
02-Aug	3.2	1.9	2.5	2.4	2.4	2.5	2.6	2.2	1.9	1.9	1.8	2.9	4.6	4.2	6.1	6.9	6.7	5.1	4.1	5.7	3.5	7.4	10.4	6.9	99.8
03-Aug	2.2	4.8	4.1	2.6	2.4	2.2	3.3	3.7	4.2	3.3	2.5	1.6	3.0	3.8	4.1	7.1	5.5	4.8	8.3	8.5	3.4	3.4	5.4	5.8	100.0
04-Aug	4.7	5.7	4.0	4.0	5.3	5.3	3.7	2.1	1.7	2.2	1.6	2.3	1.8	4.7	4.1	5.9	4.7	9.0	6.9	4.9	3.4	3.3	4.2	4.6	100.1
05-Aug	5.3	7.1	4.4	4.4	4.9	5.2	3.0	2.4	2.0	3.2	3.5	2.8	3.8	5.5	4.0	4.6	4.1	4.9	5.6	4.3	3.6	3.0	3.9	4.7	100.2
06-Aug	4.8	7.1	3.5	2.4	4.8	3.3	2.7	3.4	1.7	1.1	4.1	2.5	3.1	2.0	6.2	6.4	8.0	7.2	6.6	3.4	3.0	3.7	3.2	5.7	99.9

Table 39. Yentna River south bank sonar counts by hour, 7 July through 7 August 1993.

Date	Counts by Hour																								Daily Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
07-Jul	2	3	4	4	3	5	16	10	4	2	29	9	5	6	13	10	4	9	10	7	5	9	16	4	189
08-Jul	11	10	3	7	10	11	10	25	8	9	9	11	3	13	6	12	11	3	24	11	11	12	6	9	245
09-Jul	8	18	6	11	25	5	11	17	7	17	16	5	10	11	13	6	25	14	19	17	20	13	13	20	327
10-Jul	3	7	37	15	20	27	15	5	19	18	21	16	11	17	18	8	10	15	5	7	16	13	6	9	338
11-Jul	17	22	16	22	13	11	5	11	11	10	10	12	12	19	5	6	15	8	4	6	3	13	3	7	261
12-Jul	13	15	10	15	8	3	15	8	0	10	3	4	8	8	5	7	2	10	4	15	17	3	8	8	199
13-Jul	15	10	17	16	8	20	10	18	11	19	22	11	3	5	6	12	15	12	17	8	13	14	18	20	320
14-Jul	11	26	17	14	12	6	10	11	6	6	2	13	14	2	8	3	13	25	23	21	16	31	19	28	337
15-Jul	35	21	27	26	39	38	25	30	49	38	88	50	17	29	38	27	33	22	57	41	61	80	205	478	1,554
16-Jul	746	611	431	414	397	388	543	617	474	457	476	626	658	1,008	765	936	1,296	1,481	1,594	1,491	980	964	921	1,506	19,780
17-Jul	1,905	1,671	1,452	919	892	666	592	918	744	563	523	676	644	894	1,045	918	982	1,847	1,406	1,318	1,222	1,031	533	1,071	24,432
18-Jul	1,059	1,149	979	699	597	451	830	752	553	459	298	342	511	506	495	634	612	513	555	543	577	583	459	424	14,580
19-Jul	453	386	345	266	299	239	229	203	168	161	93	192	119	59	93	50	58	85	169	226	236	338	317	354	5,138
20-Jul	488	423	286	242	239	198	319	252	299	263	177	162	324	278	211	333	366	384	382	529	346	436	440	356	7,733
21-Jul	428	437	403	393	316	293	475	476	332	331	233	277	485	477	502	328	315	241	336	431	344	335	363	542	9,093
22-Jul	506	558	478	332	250	465	470	375	356	516	364	583	615	548	728	741	989	858	787	583	636	379	271	355	12,743
23-Jul	455	514	563	451	492	555	857	519	371	834	530	662	1,090	1,264	909	1,015	1,078	1,069	1,007	1,207	1,333	1,115	1,195	978	20,063
24-Jul	1,405	1,118	1,235	1,132	838	860	1,124	974	976	795	702	853	991	961	933	1,014	890	1,145	1,512	1,516	1,268	859	597	1,029	24,727
25-Jul	1,166	1,196	1,152	918	989	1,103	1,142	1,176	842	827	807	769	681	856	1,263	1,387	1,450	1,464	1,465	1,823	1,313	793	1,146	1,715	27,443
26-Jul	1,874	1,845	1,577	1,159	1,067	1,050	1,374	1,101	943	778	928	831	569	842	1,002	796	1,019	875	1,062	1,037	803	801	775	892	25,000
27-Jul	1,115	1,265	1,056	870	715	662	661	855	765	647	651	858	693	649	858	943	746	1,010	1,395	1,196	947	799	639	979	20,974
28-Jul	1,029	1,121	924	687	641	486	778	747	537	467	673	814	545	996	864	767	678	992	481	779	1,053	765	910	1,112	18,846
29-Jul	1,038	1,020	1,052	820	773	786	1,068	869	707	701	588	845	946	1,043	882	914	633	852	705	585	947	928	686	989	20,377
30-Jul	922	1,001	788	627	590	587	713	782	687	645	911	738	1,118	1,290	1,221	967	769	918	1,294	1,280	1,037	1,008	862	1,278	22,033
31-Jul	1,239	1,260	1,163	834	699	588	969	1,014	767	711	601	831	845	758	885	1,072	922	1,118	1,298	1,197	1,091	797	748	919	22,326
01-Aug	823	761	683	559	545	445	511	622	502	514	494	685	612	699	702	510	511	862	588	620	557	353	466	454	14,078
02-Aug	446	561	536	488	396	366	420	508	366	344	372	348	499	537	428	386	323	459	502	537	480	420	369	353	10,444
03-Aug	460	438	433	427	428	316	249	472	585	383	364	519	546	657	558	591	694	875	762	855	651	453	683	954	13,353
04-Aug	837	896	867	744	600	524	736	785	628	556	605	606	477	656	484	407	454	606	635	656	469	310	418	503	14,459
05-Aug	549	653	620	514	327	391	366	480	360	319	222	187	312	301	354	289	303	366	425	333	261	222	230	325	8,709
06-Aug	249	303	298	289	252	212	192	255	210	229	194	247	320	265	310	290	309	328	312	287	265	227	405	394	6,642
07-Aug	329	263	309	235	221	212	295	227	226	173	174	191	226	259	226	215	273	250	261	234	188	248	225	190	5,650
Total	19,636	19,582	17,767	14,149	12,701	11,969	15,030	15,114	12,513	11,802	11,180	12,973	13,909	15,913	15,830	15,594	15,798	18,716	19,096	19,396	17,166	14,352	13,952	18,255	372,393

45

Table 40. Yentna River south bank sonar counts by hour, 7 July through 7 August 1993. Counts expressed as percent of daily total

Date	Percent of Counts by Hour																							Daily Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		24
07-Jul	1.1	1.6	2.1	2.1	1.6	2.6	8.5	5.3	2.1	1.1	15.3	4.8	2.6	3.2	6.9	5.3	2.1	4.8	5.3	3.7	2.6	4.8	8.5	2.1	100.1
08-Jul	4.5	4.1	1.2	2.9	4.1	4.5	4.1	10.2	3.3	3.7	3.7	4.5	1.2	5.3	2.4	4.9	4.5	1.2	9.8	4.5	4.5	4.9	2.4	3.7	100.1
09-Jul	2.4	5.5	1.8	3.4	7.6	1.5	3.4	5.2	2.1	5.2	4.9	1.5	3.1	3.4	4.0	1.8	7.6	4.3	5.8	5.2	6.1	4.0	4.0	6.1	99.9
10-Jul	0.9	2.1	10.9	4.4	5.9	8.0	4.4	1.5	5.6	5.3	6.2	4.7	3.3	5.0	5.3	2.4	3.0	4.4	1.5	2.1	4.7	3.8	1.8	2.7	99.9
11-Jul	6.5	8.4	6.1	8.4	5.0	4.2	1.9	4.2	4.2	3.8	3.8	4.6	4.6	7.3	1.9	2.3	5.7	3.1	1.5	2.3	1.1	5.0	1.1	2.7	99.7
12-Jul	6.5	7.5	5.0	7.5	4.0	1.5	7.5	4.0	0.0	5.0	1.5	2.0	4.0	4.0	2.5	3.5	1.0	5.0	2.0	7.5	8.5	1.5	4.0	4.0	99.5
13-Jul	4.7	3.1	5.3	5.0	2.5	6.3	3.1	5.6	3.4	5.9	6.9	3.4	0.9	1.6	1.9	3.8	4.7	3.8	5.3	2.5	4.1	4.4	5.6	6.3	100.1
14-Jul	3.3	7.7	5.0	4.2	3.6	1.8	3.0	3.3	1.8	1.8	0.6	3.9	4.2	0.6	2.4	0.9	3.9	7.4	6.8	6.2	4.7	9.2	5.6	8.3	100.2
15-Jul	2.3	1.4	1.7	1.7	2.5	2.4	1.6	1.9	3.2	2.4	5.7	3.2	1.1	1.9	2.4	1.7	2.1	1.4	3.7	2.6	3.9	5.1	13.2	30.8	99.9
16-Jul	3.8	3.1	2.2	2.1	2.0	2.0	2.7	3.1	2.4	2.3	2.4	3.2	3.3	5.1	3.9	4.7	6.6	7.5	8.1	7.5	5.0	4.9	4.7	7.6	100.2
17-Jul	7.8	6.8	5.9	3.8	3.7	2.7	2.4	3.8	3.0	2.3	2.1	2.8	2.6	3.7	4.3	3.8	4.0	7.6	5.8	5.4	5.0	4.2	2.2	4.4	100.1
18-Jul	7.3	7.9	6.7	4.8	4.1	3.1	5.7	5.2	3.8	3.1	2.0	2.3	3.5	3.5	3.4	4.3	4.2	3.5	3.8	3.7	4.0	4.0	3.1	2.9	99.9
19-Jul	8.8	7.5	6.7	5.2	5.8	4.7	4.5	4.0	3.3	3.1	1.8	3.7	2.3	1.1	1.8	1.0	1.1	1.7	3.3	4.4	4.6	6.6	6.2	6.9	100.1
20-Jul	6.3	5.5	3.7	3.1	3.1	2.6	4.1	3.3	3.9	3.4	2.3	2.1	4.2	3.6	2.7	4.3	4.7	5.0	4.9	6.8	4.5	5.6	5.7	4.6	100.0
21-Jul	4.7	4.8	4.4	4.3	3.5	3.2	5.2	5.2	3.7	3.6	2.6	3.0	5.3	5.2	5.5	3.6	3.5	2.7	3.7	4.7	3.8	3.7	4.0	6.0	99.9
22-Jul	4.0	4.4	3.8	2.6	2.0	3.6	3.7	2.9	2.8	4.0	2.9	4.6	4.8	4.3	5.7	5.8	7.8	6.7	6.2	4.6	5.0	3.0	2.1	2.8	100.1
23-Jul	2.3	2.6	2.8	2.2	2.5	2.8	4.3	2.6	1.8	4.2	2.6	3.3	5.4	6.3	4.5	5.1	5.4	5.3	5.0	6.0	6.6	5.6	6.0	4.9	100.1
24-Jul	5.7	4.5	5.0	4.6	3.4	3.5	4.5	3.9	3.9	3.2	2.8	3.4	4.0	3.9	3.8	4.1	3.6	4.6	6.1	6.1	5.1	3.5	2.4	4.2	99.8
25-Jul	4.2	4.4	4.2	3.3	3.6	4.0	4.2	4.3	3.1	3.0	2.9	2.8	2.5	3.1	4.6	5.1	5.3	5.3	5.3	6.6	4.8	2.9	4.2	6.2	99.9
26-Jul	7.5	7.4	6.3	4.6	4.3	4.2	5.5	4.4	3.8	3.1	3.7	3.3	2.3	3.4	4.0	3.2	4.1	3.5	4.2	4.1	3.2	3.2	3.1	3.6	100.0
27-Jul	5.3	6.0	5.0	4.1	3.4	3.2	3.2	4.1	3.6	3.1	3.1	4.1	3.3	3.1	4.1	4.5	3.6	4.8	6.7	5.7	4.5	3.8	3.0	4.7	100.0
28-Jul	5.5	5.9	4.9	3.6	3.4	2.6	4.1	4.0	2.8	2.5	3.6	4.3	2.9	5.3	4.6	4.1	3.6	5.3	2.6	4.1	5.6	4.1	4.8	5.9	100.1
29-Jul	5.1	5.0	5.2	4.0	3.8	3.9	5.2	4.3	3.5	3.4	2.9	4.1	4.6	5.1	4.3	4.5	3.1	4.2	3.5	2.9	4.6	4.6	3.4	4.9	100.1
30-Jul	4.2	4.5	3.6	2.8	2.7	2.7	3.2	3.5	3.1	2.9	4.1	3.3	5.1	5.9	5.5	4.4	3.5	4.2	5.9	5.8	4.7	4.6	3.9	5.8	99.9
31-Jul	5.5	5.6	5.2	3.7	3.1	2.6	4.3	4.5	3.4	3.2	2.7	3.7	3.8	3.4	4.0	4.8	4.1	5.0	5.8	5.4	4.9	3.6	3.4	4.1	99.8
01-Aug	5.8	5.4	4.9	4.0	3.9	3.2	3.6	4.4	3.6	3.7	3.5	4.9	4.3	5.0	5.0	3.6	3.6	6.1	4.2	4.4	4.0	2.5	3.3	3.2	100.1
02-Aug	4.3	5.4	5.1	4.7	3.8	3.5	4.0	4.9	3.5	3.3	3.6	3.3	4.8	5.1	4.1	3.7	3.1	4.4	4.8	5.1	4.6	4.0	3.5	3.4	100.0
03-Aug	3.4	3.3	3.2	3.2	2.4	1.9	3.5	4.4	2.9	2.7	3.9	4.1	4.9	4.2	4.4	5.2	6.6	5.7	6.4	4.9	3.4	5.1	7.1	7.1	100.0
04-Aug	5.8	6.2	6.0	5.1	4.1	3.6	5.1	5.4	4.3	3.8	4.2	4.2	3.3	4.5	3.3	2.8	3.1	4.2	4.4	4.5	3.2	2.1	2.9	3.5	99.6
05-Aug	6.3	7.5	7.1	5.9	3.8	4.5	4.2	5.5	4.1	3.7	2.5	2.1	3.6	3.5	4.1	3.3	3.5	4.2	4.9	3.8	3.0	2.5	2.6	3.7	99.9
06-Aug	3.7	4.6	4.5	4.4	3.8	3.2	2.9	3.8	3.2	3.4	2.9	3.7	4.8	4.0	4.7	4.4	4.7	4.9	4.7	4.3	4.0	3.4	6.1	5.9	100.0
07-Aug	5.8	4.7	5.5	4.2	3.9	3.8	5.2	4	4	3.1	3.1	3.4	4	4.6	4	3.8	4.8	4.4	4.6	4.1	3.3	4.4	4	3.4	100.1

46

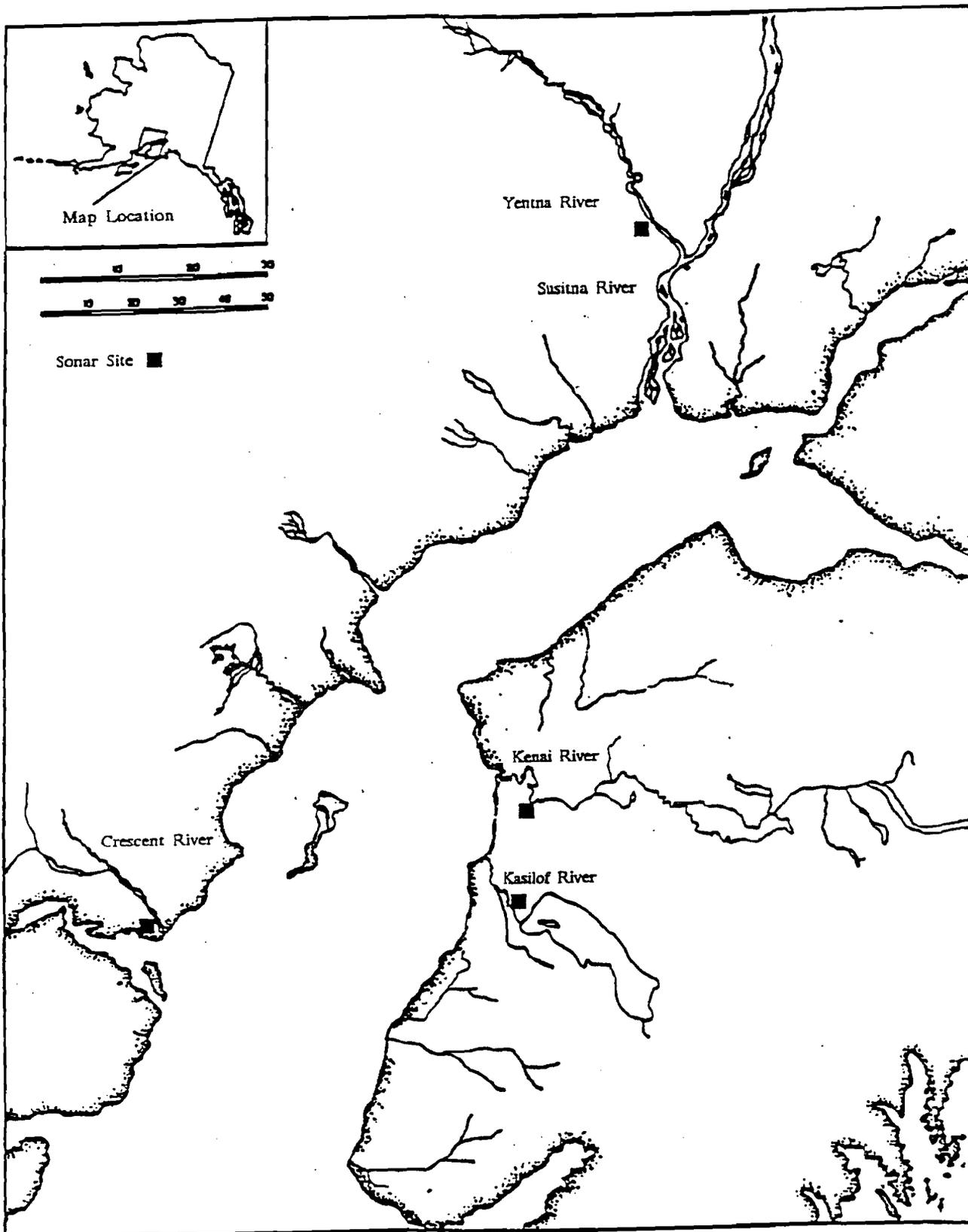


Figure 1. Upper Cook Inlet, Alaska, and sites where sockeye salmon escapement was monitored with side-scanning sonar.

